Maintenance

Fox 2004 ➤
Fox 2010 ➤
Fox 2014 ➤
SpaceFox 2011 ➤

Edition 10.2018

Maintenance

Heading

1. Engine overview
2. Service plans
3. Additional tasks due to country legislation

Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

Contents

1 Engine overview

(VIGG001221; Edition 10.2018)

Identification letters	AQZ	BAH	BJA	BPA	BLH
Engines →	Petrol	Petrol	Total flex	Total flex	petrol engine
Production	as of 08.04.03	as of 11.24.03	from 10.20.03 to 10.18.04	from 10.18.04	from 11.17.03
Limit value for exhaust gases according to	Phase III of resolution No. 15 (12/13/95) from CONAMA	Phase III of resolution No. 15 (12/13/95) from CONAMA	Phase III of resolution No. 15 (12/13/95) from CONAMA	Proconve L 4 Phase IV of resolution no. 15 (12/13/95) of CONAMA	Tier 1
Exhaust gas warning light	no	no	no	no	yes
Number of cylinders/ Valves per cylinder	4/2	4/2	4/2	4/2	4/2
Cylinder volume l	1.0	1.6	1.6	1.6	1.6
Power (petrol) kW/ rpm	52.0/6000	74/5750	74.0/5750	74.0/5750	74.0/5750
Power (ethanol) kW/ rpm	-	-	76.0/5750	76.0/5750	-
Engine torque (petrol) Nm/ rpm	89.0/4500	140.0/3250	140.0/3250	140.0/3250	140.0/3250
Engine torque (ethanol) Nm/ rpm	-	-	142.0/3250	142.0/3250	-
Diameter ∅ mm	67.11	76.5	76.5	76.5	76.5
Stroke mm	70.6	87.0	87.0	87.0	87.0
Compression rate	10.8: 1	10.8: 1	10.8: 1	10.8: 1	10.8:1
Injection/ignition	4BV[1)]	ME 7.5.10[2)]	ME 7.5.10[2)]	ME 7.5.10[2)]	ME 7.5.10
Octane rating (ROZ) min.	95 lead-free	95 lead-free	unleaded ethanol or petrol with 95 rating	unleaded ethanol or petrol with 95 rating	95 lead-free
Electronic accelerator	yes	yes	yes	yes	yes
Self-diagnosis	yes	yes	yes	yes	yes
Catalytic converter	yes	yes	yes	yes	yes
Lambda adjustment	1 Lambda probe	1 Lambda probe	1 Lambda probe	1 Lambda probe	2 Lambda probes
Recirculation of exhaust gases	no	no	no	no	no
Exhaust gas turbocharger	no	no	no	no	no

1) 4BV injection system with immobilizer

2) ME 7.5.10 injection system with immobilizer

Identification letters	BJE	BNX	CCNA	CCRA	CPBA	CSEA
Engines →	Total Flex	Total Flex	Total Flex	Total Flex	Total Flex	Total Flex

Identification letters	BJE	BNX	CCNA	CCRA	CPBA	CSEA
Production	from 09.01.03 to 04.18.05	from 04.18.05	from 08.04	from 08.04	from 12.07	as of Apr 13
Limit value for exhaust gases according to	Phase III of resolution No. 15 (12/13/95) from CONAMA	Proconve L 4 Phase IV of resolution no. 15 (12/13/95) of CONAMA	Proconve L 5 Phase IV of resolution no. 15 (12/13/95) of CONAMA[4]	Proconve L 5 Phase IV of resolution no. 15 (12/13/95) of CONAMA	Proconve L 5 Phase IV of resolution no. 15 (12/13/95) of CONAMA	PL6
Exhaust gases indicator light	no	yes	yes	yes	yes	yes
Number of cylinders/Valves per cylinder	4/2	4/2	4/2	4/2	4/2	3/4
Cylinder volume l	1.0	1.0	1.0	1.6	1.0	1.0
Power (petrol) kW/rpm	52.0/6000	53.0/5750	53.0/5250	74.0/5250	53.0/5250	75.00 (55.0)/6250
Power (ethanol) kW/rpm	53.0/6000	54.0/5750	56.0/5250	76.0/5250	56.0/5250	82.00 (60.0)/6250
Engine torque (petrol) Nm/rpm	89.0/4500	93.0/4300	95.0/3850	151.0/2500	96.0/3850	95.0 (9.7)/3000
Engine torque (ethanol) Nm/rpm	90.0/4500	96.0/4300	104.0/3850	153.0/2500	104.0/3850	102.0 (10.4)/3000
Diameter ∅ mm	67.11	67.11	67.11	76.5	67.11	74.5
Stroke mm	70.6	70.6	70.6	87.0	70.6	76.4
Compression rate	10.8: 1	13.0: 1	13.0: 1	12.0:1	12.7:1	11.5:1
Injection/ignition	4BV[3]	4BV[3]	4GV	ME 7.5.30	BOSCH-ME 17.5.20	BOSCH ME 17.5.24
Octane min. rating (ROZ)	95 lead-free	95 lead-free	Bi-fuel (Unleaded petrol/Ethanol)	Bi-fuel (Unleaded petrol/Ethanol)	Bi-fuel (Unleaded petrol/Ethanol)	Bi-fuel (Unleaded petrol/Ethanol)
Electronic accelerator	yes	yes	yes	yes	yes	yes
Self-diagnosis	yes	yes	yes	yes	yes	yes
Catalytic converter	yes	yes	yes	yes	yes	yes
Lambda adjustment	1 Lambda probe	1 Lambda probe	1 Lambda probe	1 Lambda probe	1 Lambda probe	2 probes
Recirculation of exhaust gases	no	no	no	no	no	no
Exhaust gas turbocharger	no	no	no	no	no	no

3) 4BV injection system with immobilizer

4) As of the 2010 model, Proconve L 5 Phase IV of resolution no. 15 (12/13/95) of CONAMA

Identification letters	BKR	BMD	CHFB	CHFA	CFZA
Engines →	petrol engine	petrol engine	petrol engine	petrol engine	petrol engine
Production	from 11.22.04	from 11.22.04	from 09.03	from 10.09	from 08.11
Limit value for exhaust gases according to	EURO 4	EURO 4	EURO 4	EURO 5	EU 2 MVEG2 Tier 1 ME s/ OBD
Number of cylinders/ Valves per cylinder	4/2	3/2	3/2	3/2	4/2
Cylinder volume l	1.4	1.2	1.2	1.2	1.6
Max. output kW/ rpm	55.0/5600	40.0/4750	40.0/4750	44.0/5200	74/5250
Engine torque Nm / rpm	110.0/4000	106.0/3000	108.0/3000	108.0/3000	143.0/2500
Diameter ∅ mm	76.5	76.5	76.5	76.5	76.5
Stroke mm	75.6	86.9	86.9	86.9	87.0
Compression rate	10.5	10.3	10.3	10.3	10.8:1
Injection/ignition	4 EV	Simos 3 PG	Simos 9.1	Simos 9.1	ME 7.5.30
Octane min. rating (ROZ)	95 lead-free	95 lead-free	95 lead-free	95 lead-free	95 lead-free
Electronic accelerator	yes	yes	yes	yes	yes
Self-diagnosis	yes	yes	yes	yes	yes
Catalytic converter	yes	yes	yes	yes	yes
Lambda adjustment	yes	yes	yes	yes	2 Lambda probes
Recirculation of exhaust gases	no	no	no	no	no
Exhaust gas turbocharger	no	no	no	no	no

Identification letters	ASY	BNM
Engines →	Diesel engine	Diesel engine
Production	as of 11.24.03	from 01.24.05

Identification letters		ASY	BNM
Limit value for exhaust gases according to		EURO 3 diesel	EURO 3 diesel
Number of cylinders / valves per cylinder		4/2	3/2
Cylinder volume	l	1.9	1.4
Max. output	kW/rpm	47.0/4000	51.0/4000
Engine torque	Nm/rpm	125.0/1600	155.0/1600 to 2800
Diameter	∅ mm	79.5	79.5
Stroke	mm	95.5	95.5
Compression rate		19.5:1	19.5
Injection/ignition		Diesel direct injection (SDI)	Diesel direct injection (TDI PD)
Cetane coefficient	min.	49	49
Electronic accelerator		no	no
Self-diagnosis		yes	yes
Catalytic converter		yes	yes
Lambda adjustment		no	no
Recirculation of exhaust gases		yes	yes
Exhaust gas turbocharger		no	yes

2 Service plans

Year/Model	Interval	Type of Service	Chapter
2012➤	• every 10,000 km or 6 months • Every 5,000 km or 6 months in severe operating conditions	Delivery inspection	⇒ page 16
		Oil change service	⇒ page 26
		Preventative maintenance	⇒ page 29
		Service tables	⇒ page 50
		Service tables for severe operating conditions	⇒ page 46
2011	• every 10,000 km or 6 months • Every 5,000 km or 6 months in severe operating conditions	Delivery inspection	⇒ page 16
		Oil change service	⇒ page 26
		Preventative maintenance	⇒ page 29
		Service tables	⇒ page 42
		Service tables for severe operating conditions	⇒ page 46
2010	• At every 10,000 km or 12 months only for 1.6 l engine (maintained only for 1.6 l engines - decided on week 43 of 2009) • Every 5,000 km or 6 months in severe operating conditions	Delivery inspection	⇒ page 16
		Oil change service	⇒ page 22
		Oil change service in severe operating conditions	⇒ page 23
		Preventative maintenance	⇒ page 29
		Service tables	⇒ page 35
		Service tables for severe operating conditions	⇒ page 38
2009 and 2010	• Every 10,000 km or 12 months only for 1.6 l engines (remaining only for 1.0 l engines - decided in week 43 of 2009 in replacement or interval of 10,000 km 0r 12 months)	Delivery inspection	⇒ page 16
		Oil change service	⇒ page 22
		Preventative maintenance	⇒ page 24

Year/Model	Interval	Type of Service	Chapter
	• every 10,000 km or 6 months, 1.0 l engine only	Service tables	⇒ page 31
►2008	• every 10,000 km or 6 months	Delivery inspection	⇒ page 16
		Oil change service	⇒ page 17
		Inspection service	⇒ page 19

2.1 Service table

VW standards on engine oil ⇒ page 6

Replacement intervals for the filter ⇒ page 7

Replacement intervals for the timing belt ⇒ page 8

Replacement intervals for elastic Poly-V belt ⇒ page 11

Service intervals ⇒ page 14

Replacement intervals for spark plugs ⇒ page 13

2.1.1 VW standards on engine oil

VW standards
501 01/502 00/508 88

For vehicles manufactured ► 11/2002

petrol/Total Flex engines	VW standards
4 cylinders	501 01/502 00

For vehicles manufactured from 12/2002►2014

petrol/Total Flex engines	VW standards
4 cylinders	502 00

For vehicles manufactured from 2014►

petrol/Total Flex engines	VW standards
4 cylinders	508 88

Diesel engines

Diesel engines	VW standards
With injector - pump	505 01
Without injector - pump	505 00

2.1.2 Replacement intervals for the filters (Only for Brazil)

Replacement intervals for the filter	
ENGINE OIL FILTER	
► 2004	every 15,000 km or 12 months
2005 ►2009 and 2010	Every 10,000 km or 6 months (for 2009 and 2010, only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)
2010	every 10,000 km or 12 months (maintained only for 1.6 l engines - decided on week 43 of 2009)
2011►	every 10,000 km or 6 months; in severe operating conditions, every 5,000 km or 6 months
AIR CLEANER	
► 2004 and 2005 ►2008	every 30,000 km or 24 months
2009 and 2010	every 20,000 km or 12 months (1.0 l engine) and every 30,000 km or 18 months (1.6 l engine) (for 2009 and 2010, only for 1.0 l engine - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)
2010	every 20,000 km or 24 months (maintained only for 1.6 l engines - decided on week 43 of 2009)
2011►	every 20,000 km or 12 months (1.0 l engine); every 30,000 km or 18 months (1.6 l engine); and every 10,000 km or 12 months in severe operating conditions for all engines
FUEL FILTER	
petrol engines	every 30,000 km
Total flex engines ►2009 and 2010	Every 10,000 km or 6 months (for 2009 and 2010, only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)
Total flex engines 2010	every 10,000 km or 12 months (maintained only for 1.6 l engines - decided on week 43 of 2009)
Total flex engines 2011►	every 10,000 km or 6 months; in severe operating conditions, every 10,000 km or 12 months
DUST AND POLLEN FILTER	
►2008	every 30,000 km
2009 and 2010	every 30,000 km or 18 months (maintained only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)
2010	every 20,000 km or 24 months (maintained only for 1.6 l engines - decided on week 43 of 2009)
2011►	every 30,000 km or 18 months; in severe operating conditions, every 15,000 km or 18 months

2.1.3 Replacement intervals for the filters (Except for Brazil)

Replacement intervals for the filter	
ENGINE OIL FILTER	
	every 15,000 km or 1 year
AIR CLEANER	
Only for Europe	every 60,000 km or 4 years
Except for Europe	every 30,000 km or 2 years
FUEL FILTER	

Replacement intervals for the filter						
all diesel engines	Diesel complying with European Standard 590		Diesel not complying with European Standard 590		Bio-diesel (RME)	
	Change	Drain	Change	Drain	Change	Drain
	every 60,000 km	at 30,000 and at every 60,000 km	every 30,000 km	at every 9,320.57 mi	every 30,000 km	at every 15,000 km
Engines with identification letters AQZ, BAH, BLH and BKR	every 30,000 km					
DUST AND POLLEN FILTER						
All engines ►2007 for Europe and except for Europe ►2008	every 30,000 km					
All engines 2008► for Europe and 2009► except for Europe	every 30,000 km or 2 years					

2.1.4 Replacement intervals for the timing belt (Only for Brazil)

Replacement intervals for the timing belt					
Engines					
Engine type	MKB	Time period	Note	Replacement interval	Tensioning of tooth belt
1.0 l	CCNA	2009 and 2010	Check every 30,000 km or 18 months (maintained only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)	every 90,000 km or 54 months	---
1.6 l	CCRA and CFEA	2009 and 2010	Check every 30,000 km or 18 months	every 90,000 km or 54 months	---

Replacement intervals for the timing belt					
1.0 l	CCNA	2010	Check every 20,000 km or 24 months; in severe operating conditions, every 10,000 km or 12 months Cancelled with the 10,000 km or 6 months plan	every 90,000 km or 48 months	---
1.6 l	CCRA and CFEA	2010	Check every 20,000 km or 24 months, and every 10,000 km or 12 months in severe operating conditions (maintained only for 1.6 l engines - decided on week 43 of 2009)	every 90,000 km or 48 months	---
1.0 l	CCNA	2011	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 90,000 km or 54 months	check every 90,000 km or 54 months; and every 40,000 km or 48 months in severe operating conditions

Replacement intervals for the timing belt					
1.6 l	CCRA and CFEA	2011	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 90,000 km or 54 months	check every 90,000 km or 54 months; and every 40,000 km or 48 months in severe operating conditions
1.0 l	CCNA	2012►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months	replace every 120,000 km or 54 months; and also check every 40,000 km or 48 months in severe operating conditions
1.6 l	CCRA	2012►	check every 10,000 km or 12 months in severe operating conditions	every 120,000 km or 54 months	replace every 120,000 km or 54 months; and also check every 40,000 km or 48 months in severe operating conditions
1.0 l	CPBA	2014►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months	replace every 120,000 km or 54 months; and also check every 40,000 km or 48 months in severe operating conditions
1.0 l	CSEA	2014►	check every 20,000 km or 12 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months	replace every 120,000 km or 54 months; and also check every 40,000 km or 48 months in severe operating conditions

2.1.5 Coolant pump toothed belt replacement intervals (Only for Brazil)

Replacement intervals for the timing belt					
Engines					
Engine type	MKB	Time period	Note	Replacement interval	Tensioning of tooth belt
1.0 l	CSEA	2014►	check every 20,000 km or 12 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months	replace every 120,000 km or 54 months; and also check every 40,000 km or 48 months in severe operating conditions

2.1.6 Replacement intervals for the timing belt (Except for Brazil)

Replacement intervals for the timing belt				
Diesel engines				
Engine type	MKB	Time period	Replacement interval	Tensioning roller
1.9 l SDI	ASY	-	every 150,000 km	every 150,000 km
1.4 l TDI with injector/ pump	BNM	Year Model ►2007	at every 55,923.41 mi	-
		Year Model 2008►	every 150,000 km	-

2.1.7 Replacement intervals for the Poly-V elastic belt

Replacement intervals for the Poly-V elastic belt				
Engines				
Engine type	MKB	Time period	Note	Replacement interval

Replacement intervals for the Poly-V elastic belt				
1.0 l	CCNA	2009 and 2010	Check every 30,000 km or 18 months (maintained only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months)	every 90,000 km or 54 months
1.6 l	CCRA	2009 and 2010	Check every 30,000 km or 18 months	every 90,000 km or 54 months
1.0 l	CCNA	2010	Check every 20,000 km or 24 months; in severe operating conditions, every 10,000 km or 12 months Cancelled with the 10,000 km or 6 months plan	every 90,000 km or 48 months
1.6 l	CCRA	2010	check every 20,000 km or 24 months, and every 10,000 km or 12 months in severe operating conditions (maintained only for 1.6 l engines - decided on week 43 of 2009)	every 90,000 km or 48 months
1.0 l	CCNA	2011	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 90,000 km or 54 months
1.6 l	CCRA	2011	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 90,000 km or 54 months

Replacement intervals for the Poly-V elastic belt				
1.0 l	CCNA	2012►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months
1.6 l	CCRA	2012►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months
1.0 l	CPBA	2014►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months
1.0 l	CSEA	2014►	check every 30,000 km or 18 months; in severe operating conditions, every 10,000 km or 12 months	every 120,000 km or 54 months

2.1.8 Replacement intervals for spark plugs (Only for Brazil)

Replacement intervals for spark plugs		
►2008	Every 60,000 km or 4 years, whichever occurs first	
2009►	Fox and CrossFox until chassis number C4055294	Every 60,000 km or 3 years, whichever occurs first
	SpaceFox and Space Cross until chassis number C4078481 / CA527604	
	Fox and CrossFox as of chassis number C4055295	Every 40,000 km or 4 years, whichever occurs first
	SpaceFox and Space Cross as of chassis number C4078482 / CA527605	

2.1.9 Replacement intervals for spark plugs (Except for Brazil)

Replacement interval for spark plugs	
All petrol engines	every 60,000 km or 4 years

2.2 Service intervals

2.2.1 Only for Brazil (The PR number is QG0)

Notes for performing works:

- The individual service position sequence is tested and optimized. It should be observed to prevent unnecessary work interruptions.
- If faults are found in the Inspection Service scope that require repairs, the customer must be informed.

Intervals	Service
– Oil change service according to the maintenance interval indicator ♦ every 15,000 km or 12 months, whichever occurs first ♦ ►2004 models	⇒ page 17
– Oil change service according to the maintenance interval indicator ♦ every 10,000 km or 6 months, whichever occurs first ♦ 2005► 2008	⇒ page 17
– Oil change service according to the maintenance interval indicator ♦ every 10,000 km or 6 months, whichever occurs first ♦ 2009 and 2010	⇒ page 22
– Oil change service according to the maintenance interval indicator ♦ every 10,000 km or 12 months, whichever occurs first (including in preventive maintenance) ♦ 2010 ♦ only for 1.6 l engines.	⇒ page 22
– Oil change service according to the maintenance interval indicator ♦ every 10,000 km or 6 months, whichever occurs first ♦ every 5,000 km or 6 months, whichever occurs first in severe operating conditions ♦ 2011►	⇒ page 26
– Inspection service according to the maintenance interval indicator ♦ every 12 months, every 30,000 km and every 60,000 km ♦ ►2008	⇒ page 19
– Preventive maintenance according to the maintenance intervals indicator ♦ every 20,000 km or 12 months, whichever occurs first ♦ 2009 and 2010	⇒ page 24

Intervals	Service
– Preventive maintenance according to the maintenance intervals indicator ♦ every 10,000 km or 12 months, whichever occurs first ♦ 2010 ♦ only for 1.6 l engines.	⇒ page 24
– Preventive maintenance according to the maintenance intervals indicator ♦ every 20,000 km or 12 months, whichever occurs first ♦ every 10,000 km or 12 months, whichever occurs first in severe operating conditions ♦ 2011►	⇒ page 29
– Change the brake fluid every 2 years (24 months).	⇒ page 122

2.2.2 Except for Brazil (The PR number is QG0)

Note

For countries with high sulphur content in Diesel, the Engine Oil Change Service must be carried out at every 7500 km. Countries where the sulphur content is higher

Notes for performing works:

- The individual service position sequence is tested and optimized. It should be observed to prevent unnecessary work interruptions.
- If faults are found in the Inspection Service scope that require repairs, the customer must be informed.

Intervals	Service
– Oil change service every 15,000 km or 1 year.	⇒ page 59
– Intermediary service every 30,000 km or 2 years (for Europe in vehicle models ►2010 and except for Europe in vehicle models 2009►).	⇒ page 60
– Intermediary service every 30,000 km or 2 years (for Europe in vehicle models 2011►).	⇒ page 62
– Inspection service every 30,000 km or 2 years (for Europe in vehicle models ►2007).	⇒ page 64
– Inspection services every 60,000 km or 3 years and then every 60,000 km or 2 years (for Europe in vehicle models 2008► and except Europe in vehicle models 2009►).	⇒ page 64
– Non-flexible inspection services every 1 year, every 30,000 km and every 60,000 km (except for Europe in vehicle models ►2008).	⇒ page 64
– Change the brake fluid every 2 years. ♦ At 3 years and every 2 years (for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►).	

2.3 Delivery inspection

- The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.
- For delivery inspection, it is mandatory that the vehicle is washed and has no wax residues.
- Vehicles on the yard for a long time: In vehicles with manufacturing date exceeding 5 months, the engine oil, oil filter, and oil draining plug sealing ring must be changed!
- If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram ⇒ page 86 .
- Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Work volume	Service
EXTERNAL INSPECTION	
– Transportation protection film (if available): remove	
– Corner protector (plastic film) on the doors: remove	
– Transport protection (yellow) of the windscreen wiper blades: remove	
– Wash the vehicle to verify the body and paint for damages	
– Paint, decorative elements, windows, wiper blades: check and clean, if necessary	
– Wheel fastening screws: retighten based on specified torque	⇒ page 86
– Windscreen/rear window washer: refill the reservoir and regulate the ejectors' water jet	⇒ page 93
– Cooling system: check the level and top off if necessary.	⇒ page 116
– Power steering: check the oil level	⇒ page 118
– Brake system: verify the level and complete if necessary (vehicles with more than 6 months, substitute the brake fluid)	⇒ page 125
– Engine oil, oil draining plug and plug sealing ring: replace (vehicles with more than 5 months)	⇒ page 100
– Engine oil: complete the level (only for vehicles manufactured within the last 5 months)	⇒ page 90
– Battery: manually check the firm seating of the pole bornes	⇒ page 87
– Battery: check with a battery testing apparatus	⇒ page 89
– Engine and engine compartment components: perform visual inspection regarding leaks and damages	⇒ page 104
INTERNAL INSPECTION	
– Keys: verify the quantity and the working order; if necessary, clean the exceeding lubricant	
– Adjustment of keys for remote control vehicles (if available): execute	
– Self-diagnosis: refer to the fault memory of all systems	⇒ page 75
– Radio code with diagnosis testing device: verify (if necessary)	
– Radio: activate anti-theft code	⇒ page 91

Work volume	Service
– Radio card: (part of the radio / radio-navigation system's Instruction Manual) place the adhesive containing the serial number and code / The adhesive can be found on the vehicle data label	
– Clock (if available): set correct time	⇒ page 82
– Maintenance intervals indicator (if available): reset and, for imported vehicles, reprogram the maintenance interval for 10,000 km or 6 months	⇒ page 83
– Automatic window closing (if available): program	⇒ page 86
– Door handles, locks, central locking system and window activation system: check for proper operation and activation	
– Front and rear seats, inner lining, dashboard, carpet and windows: check for cleanliness and clean if necessary	
– All the switches, electric consumers, sockets, indicators and other commands: check for proper operation	
– Install all loose components (if available): rugs, wipers, spoiler, antenna, hub caps, super hub caps, lining and covers, wheel bolts, tyre calibration valves extension	
– Fire extinguisher: check fastening and load (remove the plastic protection)	⇒ page 85
INFERIOR INSPECTION	
– Engine oil filter: replace (only for vehicles manufactured more than 5 months previously)	⇒ page 104
– Engine and engine compartment components, axles, gearbox/articulated shafts, steering wheel, joint bellows, hoses, pipes and reservoirs: check for leaks and damages (without removing the lower engine lining)	
– Brake system: check visually for damages and leaks	⇒ page 106
– Lower floor protection: visually check for damages	
– Transportation anchorage opening: close with covers	
– Tires (including spare tire): check conditions and pressure	⇒ page 95
– Perform a test run	⇒ page 128
POST-INVOICING INSPECTION (part of the process TOTAL DELIVERY)	
– Protective seat covers and mat protection plastics: remove	
– Wash the vehicle and deliver to client as per Total Delivery	
– Service seal: write down the date of the next service (including brake fluid change) and attach label to the left side of the dashboard	⇒ page 74
– Maintenance and warranty booklet: write down the data on the vehicle on the back cover, record the delivery inspection and the date of the next maintenance inspection	
– Check that the on-board literature is complete and ready for delivery to the customer	

2.4 Oil change service - (Models ►2004 and 2005 ► 2008) (Only for Brazil)

Service based on time or kilometres travelled

Vehicles with “Service based on time or kilometers traveled” have the PR numbers: QG0.

Note

- *Before initiating activities, check whether the vehicle falls under the 15,000 km /12 months or 10,000 km /6 months Service categories*
- *Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).*

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram ⇒ page 86 .

Where faults are detected during the Interval Service, take necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Note

Before initiating activities, check whether the vehicle falls under the 10,000 km /6 months Service category.

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated mileage, in services based on mileage, and “one month”, after or before the indicated time, for services based on time.

Oil Change Service	Service
Engine compartment	
– Engine oil: refill with specified oil.	⇒ page 103
– Battery: fill the electrolyte level (except for maintenance-free batteries).	
Vehicle on raised platform	
– Engine oil: drain or aspirate.	⇒ page 100
– Oil drain plug with sealing ring : replace	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Front brake pads and rear brake linings: check thickness.	⇒ page 107
– Fuel filter: replace. ♦ Total Flex engines.	⇒ page 126
Concluding tasks	
– Maintenance and warranty booklet: record the date and mileage of next service	

Oil Change Service	Service
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74

2.5 Inspection service - (Models ►2004 and 2005 ► 2008) (Only for Brazil)

Service based on time or kilometres travelled

Vehicles with “Service based on time or kilometers traveled” have the PR numbers: QG0.

Inspection intervals

Vehicles with service depending on time or kilometers traveled, at every 12 months, every 30,000 km and every 60,000 km.

If the vehicle travels 30,000 km, 60,000 km, etc. before 12 months, the Inspection Service for 30,000 km, 60,000 km etc. must be carried out along with the inspection service for 12 months.

If 30,000 or 60,000 kilometers traveled are reached after carrying out the 12-month Inspection Service, it will only be necessary to perform the exclusive items for the Inspection Service for each 30,000 km, or for the Inspection Service for each 60,000 km.

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Note

- *Inform the customer in case of problems within a service scope that require a Repair action.*
- *Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).*

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram ⇒ page 86 .

If faults are detected during the oil change service, take the necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Service for vehicles with “service based on time and kilometers traveled”	Service
Electric	
– Front lights: check operation of parking lights, low beam, high beam, fog lights, indicator system and warning lights	
– Rear lighting: check operation of brake lights (including the third brake light), rear lights, reverse lights, fog light, license plate light, boot lighting, indicator lights and warning lights.	
– Passenger compartment's lighting, cigarette lighter, horn and control lights: check for proper operation.	
– Driver and passenger airbags: conduct visual inspection regarding external damages (except for Europe in vehicle models 2008►).	⇒ page 92
– Self-diagnosis: Refer to the failure memory of every system with the Diagnosis, Measurement and Information System (except for Europe in vehicle models 2008►).	⇒ page 75
– Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning). ♦ every 30,000 km	⇒ page 119
Vehicle exterior	
– Rear window and windscreen wiper: check for proper operation.	⇒ page 93
– Rear window and windscreen wiper blades: check rest position and adjust if necessary; correct sweeping angle of malfunctioning blades.	⇒ page 95
– Body and paint: check for damages.	
Tires and wheels	
– Spare wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 96
– Front left wheel tire: check the state of tread, sides and depth of grooves _____ mm	⇒ page 95
– Rear left wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Rear right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Tire pressure (including spare wheel): calibrate	⇒ page 97
Underside of the vehicle	
– Engine oil: drain or aspirate ♦ inspection service, with oil change	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Oil drain plug with sealing ring : replace	⇒ page 100
– Engine and engine compartment components (below): visually check for leaks and damages.	⇒ page 104
– Poly-V belt: check conditions. ♦ every 60,000 km	⇒ page 104
– Gearbox and joint bellows: check for leaks and damages	⇒ page 105
– Manual gearbox: check the oil level. ♦ at every 30,000 km	⇒ page 105
– Brake system: perform a visual check for leaks and damage.	⇒ page 106
– Front brake pads and rear brake linings: check thickness	⇒ page 107
– Lower floor protection: visually check for damages.	
– Steering bar articulation tips: check the swivel joint gaps, mounting and state of the protection bellows.	⇒ page 113

Service for vehicles with “service based on time and kilometers traveled”	Service
– Front suspension arm articulations: check for fastening and clearance, as well as for damage and leakages in sealing bellows.	⇒ page 115
– Rear wheels: adjust roller bearing gaps. ♦ only for vehicles without ABS equipped with engines: AQZ, BNX, BAH, BPA from 07/01/2007)	⇒ page 113
– Exhaust system: perform a visual check for leaks and damages.	
– Fuel filter: replace. ♦ every 30,000 miles ♦ Petrol engines	⇒ page 126
– Fuel filter: replace. ♦ Total Flex engines	⇒ page 126
Engine compartment	
– Engine and engine compartment components (upper part): visually inspect for damages and leaks.	⇒ page 104
– Rear window/windscreen washer: adjust water spray from nozzles and complete with additive coolant level in the reservoir.	⇒ page 93
– Engine oil: refill with specified oil. ♦ inspection service, with oil change	⇒ page 103
– Engine oil: top off. ♦ inspection service without oil change	⇒ page 90
– Engine coolant: adjust anti-freeze proportion and refill. Theoretical value – 25° C (in Arctic climate countries – 35° C) actual value (value measured) ____ °C.	⇒ page 116
– Spark plugs: replace. ♦ every 4 years or 60,000 km, whichever occurs first	⇒ page 118
– Timing belt: check conditions and tension. ♦ every 90,000 km and then at every 30,000 km.	⇒ page 120
– Air filter: replace the air filter element and clean the filter case. ♦ every 4 years or 60,000 km, whichever occurs first ♦ BAH and BJA engines.	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ every 2 years or 30,000 km, whichever occurs first ♦ AQZ, BJE, BNX and BPA engines	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Brake fluid: replace ♦ every 2 years. ♦ additional work with separate payment!	⇒ page 122
– Brake fluid: refill (depending on pad wearing).	⇒ page 125
– Battery: fill the electrolyte level (except for maintenance-free batteries).	
– Power steering: check the oil level. ♦ every 60,000 km	⇒ page 118
Concluding tasks	
– Pressure of all 4 tires and spare wheel: check.	⇒ page 95
– Headlight adjustment: check ♦ at every 30,000 km	⇒ page 126

Service for vehicles with “service based on time and kilometers traveled”	Service
– Maintenance and warranty booklet: record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74
– Perform a test run.	⇒ page 128

2.6 Oil change service (2009 and 2010 Models) (Only for Brazil)

Service based on time or kilometres travelled

The oil change service should be performed according to the “Service Schedules” .

Note

Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

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If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

Where faults are detected during the Interval Service, take necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Oil Change Service	Service
– Engine oil: refill with specified oil.	⇒ page 100
– Brake fluid: check the level and top off if necessary.	⇒ page 125
– Spare wheel support stop: lubricate. ♦ CrossFox only	⇒ page 84
Vehicle on raised platform	
– Engine oil: drain or aspirate.	⇒ page 100

Oil Change Service	Service
– Oil drain plug with sealing ring: replace	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Brake system: perform a visual check for leaks and damage.	⇒ page 106
– Brake pads: check the amount of wear (except on 1st service).	⇒ page 107
– Brake discs: check the amount of wear (except on 1st service).	⇒ page 109
– Fuel filter (Total Flex): replace.	⇒ page 126
Concluding tasks	
– Maintenance and warranty booklet: Record the date and mileage of next service	
– Maintenance interval indicator (if available): reset	⇒ page 83
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74

2.7 Oil change service - only for 5,000 km or 6 months (Model 2010) (Only for Brazil)

Service based on time or kilometres travelled

The oil change service should be performed according to the “Service Schedules” .

Note

Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

Where faults are detected during the Interval Service, take necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Oil Change Service	Service
Engine compartment	
– Engine oil: refill with specified oil.	⇒ page 100
– Brake fluid: check the level and top off if necessary.	⇒ page 125
– Spare wheel torque reaction support (only CrossFox): lubricate	⇒ page 84
Vehicle on raised platform	
– Engine oil: drain or aspirate.	⇒ page 100
– Oil drain plug with sealing ring : replace	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Brake system: perform a visual check for leaks and damage.	⇒ page 106
– Brake pads: check the amount of wear (except on 1st service).	⇒ page 107
– Brake discs: check the amount of wear (except on 1st service).	⇒ page 109
Concluding tasks	
– Maintenance and warranty booklet: Record the date and mileage of next service	
– Maintenance interval indicator (if available): reset	⇒ page 83
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74

2.8 Preventative Maintenance (2009 and 2010 Models) (Only for Brazil)

Service based on time or kilometres travelled

Inspection intervals

Preventative Maintenance should be performed according to the “Service Schedule” and always considers the items in the Oil Change Service.

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Note

- *Inform the customer in case of problems within a service scope that require a Repair action.*
- *Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).*

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

If faults are detected during the preventative maintenance, take the required actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Service for vehicles with “service based on time and kilometers traveled”	Service
Electrical / Housing.	
– Activation system for sliding glass and windows: check for proper operation.	
– Passenger compartment's lighting, cigarette lighter, horn and control lights: check for proper operation.	
– Driver and passenger airbags: conduct visual inspection regarding external damages.	⇒ page 92
– Electrical rearview mirrors: check for proper operation.	
– Manual rearview mirrors: check state, fastening and free joint articulation.	
– Rear window and windscreen wiper: check for proper operation.	⇒ page 93
– Front lighting: check operation of low beam, high beam, fog lights, indicator system and warning lights	
– Rear lighting: check operation of brake lights (including the third brake light), rear lights, reverse lights, fog light, license plate light, boot lighting, indicator lights and warning lights.	
– Self-diagnosis: Refer to the failure memory of every system with the Diagnosis, Measurement and Information System .	⇒ page 75
Vehicle exterior	
– Rear window and windscreen wiper blades: check rest position and adjust if necessary; correct sweeping angle of malfunctioning blades.	⇒ page 95
– Body and paint: check for damages.	
– Spare wheel support stop: lubricate. ♦ CrossFox only	⇒ page 84
Tires and wheels	
– Spare wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front left wheel tire: check the state of tread, sides and depth of grooves _____ mm	⇒ page 95
– Rear left wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Rear right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Pressure of all 4 tires and spare wheel: check.	⇒ page 95
Underside of the vehicle	
– Engine oil: drain or aspirate.	⇒ page 100
– Oil drain plug with sealing ring: replace	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Fuel filter (Total Flex): replace.	⇒ page 126
– Engine and engine compartment components (below): visually check for leaks and damages.	⇒ page 104
– Gearbox: check for damage and leaks, including the state of the constant velocity joint bellows.	

Service for vehicles with “service based on time and kilometers traveled”	Service
– Manual gearbox: check the oil level.	⇒ page 105 .
– Brake system: perform a visual check for leaks and damage.	⇒ page 106
– Brake pads: check thickness (except on 1st service).	⇒ page 107
– Wheel bearing cones: adjust ♦ Only for the 10,000 km or 12 months plan.	⇒ page 113
– Brake discs: check the width (except on 1st service).	⇒ page 109
– Shocks: visually check the mounting and for leaks.	
– Lower floor protection: visually check for damages.	
– Steering wheel bars: check the swivel joint gaps, mounting and state of the protection bellows.	⇒ page 113
– Front suspension arm articulations: check for fastening and clearance, as well as for damage and leakages in sealing bellows.	⇒ page 115
– Exhaust system: perform a visual check for leaks and damages.	
Engine compartment	
– Engine oil: refill with specified oil.	⇒ page 100
– Engine and engine compartment components (upper part): visually inspect for damages and leaks.	⇒ page 104
– Poly-V belt and (elastic): check conditions	⇒ page 104
– Rear window/windscreen washer: adjust water spray from nozzles and complete with additive coolant level in the reservoir.	⇒ page 93
– Engine coolant: adjust anti-freeze proportion and refill. Theoretical value – 25° C (in Arctic climate countries – 35° C) actual value (value measured) ____ °C.	⇒ page 116
– Brake fluid: refill (depending on pad wearing).	⇒ page 125
– Headlights: adjust the beams	⇒ page 126
Concluding tasks	
– Maintenance interval indicator (if available): reset	⇒ page 83
– Maintenance and warranty booklet: record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74
– Perform a test drive.	⇒ page 128

2.9 Oil change service (2011 Models) (Only for Brazil)

Service based on time or kilometres travelled

The oil change service should be performed according to the “Service Schedules” .

Note

Use oils with high lubrication power, according to specifications VW 502 00 (petrol, ethanol and Total flex).

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

Where faults are detected during the Interval Service, take necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Oil Change Service	Service
EXTERNAL INSPECTION	
– Power steering: check oil level (except electric-hydraulic)	⇒ page 118
– Brake system: check the level and top off if necessary	⇒ page 125
– Engine oil filter: replace	⇒ page 104
– Engine oil and oil draining plug and plug sealing ring: replace	⇒ page 100
– Front lighting (lights, low-beam headlights, high-beam headlights, fog lights, turn signals, warning light system): check for proper operation.	
– Rear lighting (brake lights, rear lights, reverse light, rear fog lights, number plate lights, turn signals, warning light system): check for proper operation.	
– Spare wheel torque reaction support (only CrossFox): lubricate	⇒ page 84
INTERNAL INSPECTION	
– Self-diagnosis: refer to the fault memory of all systems	⇒ page 75
– Maintenance interval indicator: reset	⇒ page 83
– Internal lighting, trunk and glove compartment, cigarette lighter, plugs, horn and control lights: check for proper operation	
– Fire extinguisher: check fastening, charge and validity date	
– Register the date and mileage of the next service in the "Warranty & Maintenance" book and also on the sticker that can be fixed to the windscreen	⇒ page 74
INFERIOR INSPECTION	
– Brake discs and pads: check thickness	⇒ page 107
– Brake system: check visually for damages and leaks	⇒ page 106

Oil Change Service	Service
– Fuel filter: replace	⇒ page 126

2.10 Oil change service (2014► Models) (Only for Brazil)

Service based on time or kilometres travelled

The oil change service should be performed according to the “Service Schedules” .

Note

Use oils with high lubrication power, according to specifications VW 508 88 (petrol, ethanol and Total flex).

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

Where faults are detected during the Interval Service, take necessary actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Oil Change Service	Service
EXTERNAL INSPECTION	
– Power steering: check oil level (except electric-hydraulic)	⇒ page 118
– Brake system: check the level and top off if necessary	⇒ page 125
– Engine oil filter: replace	⇒ page 104
– Engine oil and oil draining plug and plug sealing ring: replace (Except for CSEA)	⇒ page 100
– Engine oil: replace (Only for CSEA)	
– Front lighting (lights, low-beam headlights, high-beam headlights, fog lights, turn signals, warning light system): check for proper operation.	

Oil Change Service	Service
– Rear lighting (brake lights, rear lights, reverse light, rear fog lights, number plate lights, turn signals, warning light system): check for proper operation.	
– Spare wheel torque reaction support (only CrossFox): lubricate	⇒ page 84
INTERNAL INSPECTION	
– Self-diagnosis: refer to the fault memory of all systems	⇒ page 75
– Maintenance interval indicator: reset	⇒ page 83
– Internal lighting, trunk and glove compartment, cigarette lighter, plugs, horn and control lights: check for proper operation	
– Fire extinguisher: check fastening, charge and validity date	
– Register the date and mileage of the next service in the "Warranty & Maintenance" book and also on the sticker that can be fixed to the windscreen	⇒ page 74
INFERIOR INSPECTION	
– Brake discs and pads: check thickness	⇒ page 107
– Brake system: check visually for damages and leaks	⇒ page 106
– Fuel filter: replace	⇒ page 126

2.11 Preventative Maintenance (2011► Model) (Only for Brazil)

Service based on time or kilometres travelled

Inspection intervals

Preventative Maintenance should be performed according to the “Service Schedule” and always considers the items in the Oil Change Service.

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and “one month”, after or before the indicated time, for services based on time.

Note

- *Inform the customer in case of problems within a service scope that require a Repair action.*
- *Use oils with high lubricating power, as per ⇒ page 6 .*

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle's battery should not be disconnected after reprogramming. Power window drive - reprogram.

If faults are detected during the preventative maintenance, take the required actions to repair them and inform the customer about the events.

Ask whether the client wishes to install new windscreen wiper blades and place additive in the windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive
Arctic climate countries	-G 052 164 M2-
Tropical climate countries	-G 052 184 A2-

Oil Change Service	Service
EXTERNAL INSPECTION	
– Brake system: check the level and top off if necessary	⇒ page 125
– Cooling system: check the level and top off if necessary	⇒ page 116
– Window washer (rear window/windscreen): refill the reservoir and regulate the ejectors' water jet	⇒ page 93
– Power steering: check oil level (except electric-hydraulic)	⇒ page 118
– Engine oil and oil draining plug and plug sealing ring: replace	⇒ page 100
– Air filter: clean the case and replace the filter element (1.0 l engine only)	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Headlights: regulate the beam	⇒ page 126
– Windscreen/rear window wipers: check the working order, adjust the resting position and the sweep of the wiper arms	⇒ page 95
– Engine and engine compartment components: check for damages and leaks.	⇒ page 104
– Front lighting (lights, low-beam headlights, high-beam headlights, fog lights, turn signals, warning light system): check for proper operation.	
– Rear lighting (brake lights, rear lights, reverse light, rear fog lights, number plate lights, turn signals, warning light system): check for proper operation.	
– Rearview mirrors: check working order, condition and fastening.	
– Body and paint: check for damages, including the protective lower body work	
– Spare wheel torque reaction support (only CrossFox): lubricate	⇒ page 84
INTERNAL INSPECTION	
– Dash panel: check the working order of all the items	
– Internal lighting, trunk and glove compartment, cigarette lighter, plugs, horn and control lights: check for proper operation	
– Airbag: check for external damages	⇒ page 92
– Fire extinguisher: check fastening, charge and validity date	
– Window activation system: check for proper operation	
INFERIOR INSPECTION	
– Tires (including spare tire): check conditions and pressure	⇒ page 95
– Brake discs and pads: check thickness	⇒ page 107
– Exhaust system: check for damages, leakage and fastening	
– Brake system: check visually for damages and leaks	⇒ page 106
– Gearbox and joint bellows: check for leaks and damages	⇒ page 105
– Gearbox: check the oil level	⇒ page 105 .
– Steering wheel bars: check the swivel joint gaps, mounting and state of the protection bellows	⇒ page 113
– Axle articulations: check the sealing bellows for damage and leaks	⇒ page 115

Oil Change Service	Service
– Shocks: visually check the mounting and for leaks	
– Fuel filter: replace	⇒ page 126
CONCLUSIVE WORKS	
– Self-diagnosis: refer to the fault memory of all systems	⇒ page 75
– Maintenance interval indicator: reset	⇒ page 83
– Register the date and mileage of the next service in the "Warranty & Maintenance" book and also on the sticker that can be fixed to the windscreen	⇒ page 74
– Perform a test run	⇒ page 128

2.12 Service table - (Models 2009 and 2010) 10,000 km or 6 months (maintained only for 1.0 l engines - decided on week 43 of 2009, replacing the previous interval of 10,000 km or 12 months) (Only for Brazil)

WARNING

Before initiating activities, check whether the vehicle falls under the 10,000 km /6 months or 10,000 km /12 months Service categories

The services below should be performed every 10,000 km or 6 months, whichever occurs first, except changing the break system fluid which should be performed every 2 years ⇒ page 122 .

Note

- *The deadlines for checks and replacements contained in the service schedule should be rigorously followed. The deadlines listed should never be surpassed, according to the examples below:*
- *The timing belt should be replaced after the 9th service (in intervals greater than 90,000 km or 54 months).*
- *Preventative maintenance always includes the oil change service items ⇒ page 24 .*
- *After the 18th Service is performed, the sequence should continue, restarting the maintenance from the 1st Service.*
- *A tolerance of "up to 1,000 km" is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and "one month", after or before the indicated time, for services based on time.*

1st Service

– Perform the oil change service ⇒ page 22 .

2nd Service

– Perform preventative maintenance ⇒ page 24 plus:

- ♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

3rd Service

- – Perform the oil change service ⇒ page 22 plus:

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Air cleaner: Clean the housing and replace the air filter element (Except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
- ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- ♦ Wheel bearing cones: adjust ⇒ page 113
- ♦ Sun roof: check and lubricate ⇒ page 84
- ♦ Rear brake lining: check thickness ⇒ page 112

4th Service

- – Perform preventative maintenance ⇒ page 24 plus:

- ♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection)

5th Service

- – Perform the oil change service ⇒ page 22 .

6th Service

- – Perform preventative maintenance ⇒ page 24 plus:

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Power steering: check the oil level ⇒ page 118 .
- ♦ Air filter: clean the housing and replace the filtering element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- ♦ Wheel bearing cones: adjust ⇒ page 113
- ♦ Sun roof: check and lubricate ⇒ page 84
- ♦ Rear brake lining: check thickness ⇒ page 112
- ♦ Spark plugs: replace ⇒ page 118 .

7th Service

- – Perform the oil change service ⇒ page 22 .

8th Service

- – Perform preventative maintenance ⇒ page 24 plus:

- ♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

9th Service

- – Perform the oil change service ⇒ page 22 plus:

- ♦ Timing belt to activate the valve crankshaft: replace ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism .
- ♦ Poly V Belt (elastic): replace ⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons
- ♦ Air filter: clean the housing and replace the filtering element (except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
- ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- ♦ Wheel bearing cones: adjust ⇒ page 113
- ♦ Sun roof: check and lubricate ⇒ page 84
- ♦ Rear brake lining: check thickness ⇒ page 112

10th Service

- – Perform preventative maintenance ⇒ page 24 plus:

- ♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

11th Service

- – Perform the oil change service ⇒ page 22 .

12th Service

- – Perform preventative maintenance ⇒ page 24 plus:

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Power steering: check the oil level ⇒ page 118 .
- ♦ Air filter: clean the housing and replace the air filter element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- ♦ Wheel bearing cones: adjust ⇒ page 113
- ♦ Sun roof: check and lubricate ⇒ page 84
- ♦ Rear brake lining: check thickness ⇒ page 112
- ♦ Spark plugs: replace ⇒ page 118 .

13th Service

- – Perform the oil change service ⇒ page 22 .

14th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

15th Service

– Perform the oil change service ⇒ page 22 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air cleaner: Clean the housing and replace the air filter element (Except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Sun roof: check and lubricate ⇒ page 84
♦ Rear brake lining: check thickness ⇒ page 112

16th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

17th Service

– Perform the oil change service ⇒ page 22 .

18th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt to activate the valve crankshaft: replace ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism .
♦ Poly V Belt (elastic): replace ⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Power steering: check the oil level ⇒ page 118 .
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Sun roof: check and lubricate ⇒ page 84
♦ Rear brake lining: check thickness ⇒ page 112
♦ Spark plugs: replace ⇒ page 118 .

2.12.1 Service tables - (2010 Models) 10,000 km or 12 months (maintained only for 1.6 l engines - decided on week 43 of 2009) (Only for Brazil)

WARNING

Before initiating activities, check whether the vehicle falls under the 10,000 km /6 months or 10,000 km /12 months Service categories

The services provided below must be conducted every 10,000 km or 12 months, whichever occurs first, except the brake system fluid change, which must be conducted every 2 years ⇒ page 122 , the Poly-V elastic belt must be replaced every 4 years, in case the vehicle has not reached 90,000 km and the timing belt must be replaced every 4 years, in case the vehicle has not reached 90,000 km.

Note

- *The deadlines for checks and replacements contained in the service schedule should be rigorously followed. The deadlines listed should never be surpassed, according to the examples below:*
- *Preventative maintenance always includes the oil change service.*
- *After the 12th Service is performed, the sequence should continue, restarting the maintenance from the 1st Service.*
- *A tolerance of "up to 1,000 km" is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and "one month", after or before the indicated time, for services based on time.*

1st Service

– Perform preventative maintenance ⇒ page 24 .

2nd Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112

3rd Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Sun roof: check and lubricate ⇒ page 84 .

4th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Spark plugs: replace ⇒ page 118 .

5th Service

– Perform preventative maintenance ⇒ page 24 .

6th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Power steering: check the oil level ⇒ page 118 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Sun roof: check and lubricate ⇒ page 84 .
♦ Rear brake lining: check thickness ⇒ page 112

7th Service

– Perform preventative maintenance ⇒ page 24 .

8th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Spark plugs: replace ⇒ page 118 .

9th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Sun roof: check and lubricate ⇒ page 84 .

10th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112

11th Service

– Perform preventative maintenance ⇒ page 24 .

12th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Power steering: check the oil level ⇒ page 118 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Sun roof: check and lubricate ⇒ page 84 .
- Rear brake lining: check thickness ⇒ page 112
- Spark plugs: replace ⇒ page 118 .

2.12.2 Service tables for conditions of severity (2010 Models) 5.000km or 6 months (Only for Brazil)

The services below should be performed every 5,000 km or 6 months, whichever occurs first, except changing the break system fluid which should be performed every 2 years ⇒ page 122

Note

- *The deadlines for checks and replacements contained in the service schedule should be rigorously followed. The deadlines listed should never be surpassed, according to the examples below:*
- *The timing belt should be replaced after the 9th service (in intervals greater than 90,000 km or 54 months).*
- *Preventative maintenance always includes the oil change service items ⇒ page 24 .*
- *After the 18th Service is performed, the sequence should continue, restarting the maintenance from the 1st Service.*
- *A tolerance of "up to 1,000 km" is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and "one month", after or before the indicated time, for services based on time.*

1st Service

– Perform the oil change service ⇒ page 22 .

2nd Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
♦ Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

3rd Service

– Perform the oil change service ⇒ page 22 .

4th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113

5th Service

– Perform the oil change service ⇒ page 22 . .

6th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Sun roof: check and lubricate ⇒ page 84

7th Service

– Perform the oil change service ⇒ page 22 . .

8th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: replace the air filter element and clean the filter case.
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Spark plugs: replace ⇒ page 118 .

9th Service

– Perform the oil change service ⇒ page 22 .

10th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

11th Service

– Perform the oil change service ⇒ page 22 .

12th Service

- Perform preventative maintenance ⇒ page 24 plus:
  - ♦ Timing belt: check conditions and tension ⇒ page 120 .
  - ♦ Poly-V belt: check conditions ⇒ page 104 .
  - ♦ Power steering: check the oil level ⇒ page 118 .
  - ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
  - ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
  - ♦ Rear brake lining: check thickness ⇒ page 112
  - ♦ Wheel bearing cones: adjust ⇒ page 113
  - ♦ Sun roof: check and lubricate ⇒ page 84

13th Service

- Perform the oil change service ⇒ page 22 .

14th Service

- Perform preventative maintenance, plus:
  - ♦ Timing belt: check conditions and tension ⇒ page 120 .
  - ♦ Poly-V belt: check conditions ⇒ page 104 .
  - ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
  - ♦ Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

15th Service

- Perform the oil change service ⇒ page 22 .

16th Service

- Perform preventative maintenance ⇒ page 24 plus:
  - ♦ Timing belt: check conditions and tension ⇒ page 120 .
  - ♦ Poly-V belt: check conditions ⇒ page 104 .
  - ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
  - ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
  - ♦ Rear brake lining: check thickness ⇒ page 112
  - ♦ Wheel bearing cones: adjust ⇒ page 113
  - ♦ Spark plugs: replace ⇒ page 118 .

17th Service

- Perform the oil change service ⇒ page 22 .

18th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Sun roof: check and lubricate ⇒ page 84

19th Service

– Perform the oil change service ⇒ page 22 .

20th Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113

21st Service

– Perform the oil change service ⇒ page 22 .

22nd Service

– Perform preventative maintenance ⇒ page 24 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: check conditions⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

23rd Service

– Perform the oil change service ⇒ page 22 .

24th Service

– Perform preventative maintenance ⇒ page 24 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Power steering: check the oil level ⇒ page 118 .
♦ Spark plugs: replace ⇒ page 118 .
♦ Sun roof: check and lubricate ⇒ page 84

2.12.3 Service tables - (2011 Models) 10,000 km or 6 months (Only for Brazil)

The services below should be performed every 10,000 km or 6 months, whichever occurs first, except changing the break system fluid which should be performed every 2 years ⇒ page 122

Note

- *The deadlines for checks and replacements contained in the service schedule should be rigorously followed. The deadlines listed should never be surpassed, according to the examples below:*
- *The timing belt should be replaced after the 9th service (in intervals greater than 90,000 km or 54 months).*
- *Preventative maintenance always includes the oil change service items ⇒ page 24 .*
- *After the 18th Service is performed, the sequence should continue, restarting the maintenance from the 1st Service.*
- *A tolerance of "up to 1,000 km" is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and "one month", after or before the indicated time, for services based on time.*

1st Service

– Perform the oil change service ⇒ page 26 .

2nd Service

– Perform preventative maintenance, plus ⇒ page 29 :

3rd Service

–	Perform the oil change service ⇒ page 26 but:
♦	Timing belt: check conditions and tension ⇒ page 120 .
♦	Poly-V belt: check conditions ⇒ page 104 .
♦	Air cleaner: Clean the housing and replace the air filter element (Except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
♦	Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦	Rear brake lining: check thickness ⇒ page 112
♦	Wheel bearing cones: adjust ⇒ page 113
♦	Sun roof: check and lubricate ⇒ page 84

4th Service

–	Perform preventative maintenance, plus ⇒ page 29 :
♦	Air filter: clean the housing and replace the air filter element (only for 1.0 l engine ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection)

5th Service

–	Perform the oil change service ⇒ page 26 .

6th Service

–	Perform preventative maintenance, plus ⇒ page 29 :
♦	Timing belt: check conditions and tension ⇒ page 120 .
♦	Poly-V belt: check conditions ⇒ page 104 .
♦	Air filter: clean the housing and replace the air filter element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦	Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦	Rear brake lining: check thickness ⇒ page 112
♦	Wheel bearing cones: adjust ⇒ page 113
♦	Sun roof: check and lubricate ⇒ page 84
♦	Spark plugs: replace ⇒ page 118 .

7th Service

–	Perform the oil change service ⇒ page 26 .

8th Service

–	Perform preventative maintenance, plus ⇒ page 29 :
♦	Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

9th Service

– Perform the oil change service ⇒ page 26 plus:
♦ Timing belt to activate the valve crankshaft: replace ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism .
♦ Poly V Belt (elastic): replace ⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons
♦ Air filter: clean the housing and replace the air filter element (except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Timing belt tensioner to activate the valve crankshaft: check ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism
♦ Sun roof: check and lubricate ⇒ page 84

10th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

11th Service

– Perform the oil change service ⇒ page 26 .

12th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Sun roof: check and lubricate ⇒ page 84
♦ Spark plugs: replace ⇒ page 118 .

13th Service

– Perform the oil change service ⇒ page 26 .

14th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

15th Service

– Perform the oil change service ⇒ page 26 but:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the housing and replace the air filter element (Except for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Sun roof: check and lubricate ⇒ page 84

16th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Air filter: clean the housing and replace the air filter element (only for 1.0 l engine) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

17th Service

– Perform the oil change service ⇒ page 26 .

18th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt to activate the valve crankshaft: replace ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism .
- Poly V Belt (elastic): replace ⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons
- Air filter: clean the housing and replace the air filter element (1.0 l and 1.6 l engines) ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Timing belt tensioner to activate the valve crankshaft: check ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism .
- Sun roof: check and lubricate ⇒ page 84
- Spark plugs: replace ⇒ page 118 .

2.12.4 Service tables for conditions of severity (2011► Models) 5,000km or 6 months (Only for Brazil)

2011 Models: The services below should be carried out every 5,000 km or 6 months, whichever occurs first, except:

- changing the brake system fluid, which must be carried out every 2 years ⇒ page 122 .
- the poly-V elastic belt must be replaced every 90,000 km or 4 years and 6 months⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons
- the drive belt must be replaced and the belt tensioner must be checked every 90,000 km or 4 years and 6 months⇒ Engine; Rep. gr. 15 ; Engine head, valve camshaft mechanism

2012► models: the services below should be carried out every 5,000 km or 6 months, whichever occurs first, except:

- changing the brake system fluid, which must be carried out every 2 years ⇒ page 122 .
- the poly-V elastic belt must be replaced every 120,000 km or 4 years and 6 months⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons
- the drive belt and belt tensioner must be replaced every 120,000 km or 4 years and 6 months⇒ Engine; Rep. gr. 15 ; Engine head, valve camshaft mechanism

1st Service

–	Perform the oil change service ⇒ page 26 .

2nd Service

–	Perform preventative maintenance, plus ⇒ page 29 :
♦	Timing belt: check conditions and tension ⇒ page 120 .
♦	Poly-V belt: check conditions ⇒ page 104 .
♦	Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

3rd Service

–	Perform the oil change service ⇒ page 26 .
–	Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

4th Service

–	Perform preventative maintenance, plus ⇒ page 29 :
♦	Timing belt: check conditions and tension ⇒ page 120 .
♦	Poly-V belt: check conditions ⇒ page 104 .
♦	Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
♦	Rear brake lining: check thickness ⇒ page 112
♦	Wheel bearing cones: adjust ⇒ page 113
♦	Sun roof: check and lubricate ⇒ page 84

5th Service

– Perform the oil change service ⇒ page 26 .

6th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

7th Service

– Perform the oil change service ⇒ page 26 .

8th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Timing belt tensioner to activate the valve crankshaft: check ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism
- Sun roof: check and lubricate ⇒ page 84
- Spark plugs: replace ⇒ page 118 .

9th Service

– Perform the oil change service ⇒ page 26 .

– Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

10th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .

11th Service

– Perform the oil change service ⇒ page 26 .

12th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Sun roof: check and lubricate ⇒ page 84
♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

13th Service

– Perform the oil change service ⇒ page 26 .

14th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .

15th Service

– Perform the oil change service ⇒ page 26 .
– Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

16th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Wheel bearing cones: adjust ⇒ page 113
♦ Timing belt tensioner to activate the valve crankshaft: check ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism
♦ Sun roof: check and lubricate ⇒ page 84
♦ Spark plugs: replace ⇒ page 118 .

17th Service

– Perform the oil change service ⇒ page 26 .

18th Service

- Perform preventative maintenance, plus ⇒ page 29 :

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- ♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

19th Service

- Perform the oil change service ⇒ page 26 .

20th Service

- Perform preventative maintenance, plus ⇒ page 29 :

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- ♦ Rear brake lining: check thickness ⇒ page 112
- ♦ Wheel bearing cones: adjust ⇒ page 113
- ♦ Sun roof: check and lubricate ⇒ page 84

21st Service

- Perform the oil change service ⇒ page 26 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .

22nd Service

- Perform preventative maintenance, plus ⇒ page 29 :

- ♦ Timing belt: check conditions and tension ⇒ page 120 .
- ♦ Poly-V belt: check conditions ⇒ page 104 .
- ♦ Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .

23rd Service

- Perform the oil change service ⇒ page 26 .

24th Service

- Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: clean the housing and replace the air filter element ⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)⇒ Heating, air conditioning; Rep. gr. 80 ; Heating .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Timing belt tensioner to activate the valve crankshaft: check ⇒ Engine; Rep. gr. 15 ; Cylinder head, valve command mechanism
- Sun roof: check and lubricate ⇒ page 84
- Spark plugs: replace ⇒ page 118 .
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

2.13 Service tables - (2012►2013 Models) 10,000 km or 6 months (Only for Brazil)

The services below should be carried out every 10,000 km or 6 months, whichever occurs first, except:

- Timing belt and tensioning pulley: replace every 120,000 km or 4 years and 6 months ⇒ page 113
- Poly-v elastic belt: replace every 120,000 km or 4 years and 6 months ⇒ page 105
- changing the brake system fluid, which must be carried out every 2 years ⇒ page 122
- Spark plugs must be replaced according to the table below ⇒ page 118

Fox and CrossFox until chassis number C4055294	every 60,000 km or 3 years
SpaceFox until chassis number C4078481 / CA527604	
Fox and CrossFox as of chassis number C4055295	every 40,000 km or 4 years
SpaceFox as of chassis number C4078482 / CA527605	

1st Service

- Perform the oil change service ⇒ page 26 .

2nd Service

- Perform preventative maintenance, plus ⇒ page 29 ;

3rd Service

– Perform the oil change service ⇒ page 26 but:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

4th Service

– Perform preventative maintenance, plus ⇒ page 29 :

5th Service

– Perform the oil change service ⇒ page 26 .

6th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

7th Service

– Perform the oil change service ⇒ page 26 .

8th Service

– Perform preventative maintenance, plus ⇒ page 29 :

9th Service

– Perform the oil change service ⇒ page 26 plus:
♦ Timing belt: check conditions and tension ⇒ page 120 . ♦ Poly-V belt: check conditions ⇒ page 104 . ♦ Air filter: replace the air filter element and clean the filter case (except for 1.0 l engine) ⇒ page 100 ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 . ♦ Rear brake lining: check thickness ⇒ page 112 ♦ Wheel bearing cones: adjust ⇒ page 113 ♦ Sun roof: check and lubricate ⇒ page 84 ♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

10th Service

– Perform preventative maintenance, plus ⇒ page 29 :

11th Service

– Perform the oil change service ⇒ page 26 .

12th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 . ♦ Poly-V belt: check conditions ⇒ page 104 . ♦ Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100 ♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 . ♦ Rear brake lining: check thickness ⇒ page 112 ♦ Wheel bearing cones: adjust ⇒ page 113 ♦ Sun roof: check and lubricate ⇒ page 84 ♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

13th Service

– Perform the oil change service ⇒ page 26 .

14th Service

– Perform preventative maintenance, plus ⇒ page 29 :

15th Service

– Perform the oil change service ⇒ page 26 but:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (Except for 1.0 l engine) ⇒ page 100 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

16th Service

– Perform preventative maintenance, plus ⇒ page 29 :

17th Service

– Perform the oil change service ⇒ page 26 .

18th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Wheel bearing cones: adjust ⇒ page 113
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

2.14 Service tables - (2014► Models) 10,000 km or 6 months (Only for Brazil) (Except Bluemotion)

The services below should be carried out every 10,000 km or 6 months, whichever occurs first, except:

- Timing belt and tensioning pulley: replace every 120,000 km or 4 years and 6 months ⇒ page 113
- Poly-v elastic belt: replace every 120,000 km or 4 years and 6 months ⇒ page 105
- changing the brake system fluid, which must be carried out every 2 years ⇒ page 122

- Spark plugs must be replaced every 40,000 km or 4 years ⇒ page 118

1st Service

– Perform the oil change service ⇒ page 26 .

2nd Service

– Perform preventative maintenance, plus ⇒ page 29 :

3rd Service

– Perform the oil change service ⇒ page 26 but:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

4th Service

– Perform preventative maintenance, plus ⇒ page 29 :

5th Service

– Perform the oil change service ⇒ page 26 .

6th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

7th Service

– Perform the oil change service ⇒ page 26 .

8th Service

– Perform preventative maintenance, plus ⇒ page 29 :

9th Service

– Perform the oil change service ⇒ page 26 plus:

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air filter: replace the air filter element and clean the filter case (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

10th Service

– Perform preventative maintenance, plus ⇒ page 29 :

11th Service

– Perform the oil change service ⇒ page 26 .

12th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Timing belt: check conditions and tension ⇒ page 120 .
- Poly-V belt: check conditions ⇒ page 104 .
- Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Rear brake lining: check thickness ⇒ page 112
- Sun roof: check and lubricate ⇒ page 84
- Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

13th Service

– Perform the oil change service ⇒ page 26 .

14th Service

– Perform preventative maintenance, plus ⇒ page 29 :

15th Service

– Perform the oil change service ⇒ page 26 but:
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air cleaner: Clean the case and replace the filter element (Except for 1.0 l engine) ⇒ page 100 .
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Sun roof: check and lubricate ⇒ page 84
♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

16th Service

– Perform preventative maintenance, plus ⇒ page 29 :

17th Service

– Perform the oil change service ⇒ page 26 .

18th Service

– Perform preventative maintenance, plus ⇒ page 29 :
♦ Timing belt: check conditions and tension ⇒ page 120 .
♦ Poly-V belt: check conditions ⇒ page 104 .
♦ Air cleaner: Clean the case and replace the filter element (except for 1.0 l engine) ⇒ page 100
♦ Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
♦ Rear brake lining: check thickness ⇒ page 112
♦ Sun roof: check and lubricate ⇒ page 84
♦ Cold start reservoir filter: replace (only for CPBA "Tec" engine) ⇒ page 120

2.15 Service tables - (2014► Models) 10,000 km or 6 months (Only for Brazil) (Only Bluemotion)

The services below should be carried out every 10,000 km or 6 months, whichever occurs first, except:

- changing the brake system fluid, which must be carried out every 2 years ⇒ page 122
- Poly-v elastic belt: replace every 160,000 km or 8 years ⇒ page 105
- Coolant pump timing belt: replace every 240,000 km ⇒ page 105
- Timing belt tensioner and camshaft timing belt: replace every 240,000 km ⇒ page 105
- Spark plugs must be replaced every 40,000 km or 4 years ⇒ page 118

1st Service

– Perform the oil change service ⇒ page 26 .

2nd Service

– Perform preventative maintenance, plus ⇒ page 29 :

3rd Service

– Perform the oil change service ⇒ page 26 but:

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

4th Service

– Perform preventative maintenance, plus ⇒ page 29 :

5th Service

– Perform the oil change service ⇒ page 26 .

6th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

7th Service

– Perform the oil change service ⇒ page 26 .

8th Service

– Perform preventative maintenance, plus ⇒ page 29 :

9th Service

– Perform the oil change service ⇒ page 26 plus:

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

10th Service

– Perform preventative maintenance, plus ⇒ page 29 :

11th Service

– Perform the oil change service ⇒ page 26 .

12th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

13th Service

– Perform the oil change service ⇒ page 26 .

14th Service

– Perform preventative maintenance, plus ⇒ page 29 :

15th Service

– Perform the oil change service ⇒ page 26 but:

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

16th Service

– Perform preventative maintenance, plus ⇒ page 29 :

17th Service

– Perform the oil change service ⇒ page 26 .

18th Service

– Perform preventative maintenance, plus ⇒ page 29 :

- Camshaft timing belt: check ⇒ page 120 .
- Coolant pump timing belt: check ⇒ page 121
- Poly-V belt: check conditions ⇒ page 104 .
- Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning) ⇒ page 104 .
- Brakes: check lining ⇒ page 112

2.16 Oil Change Service (Except for Brazil)

The oil change service is valid for service plans for both ➤ 2007 and ➤ 2008 models, as well as service plans for 2008 and 2009➤ models.

Note

- *Use highly-lubricant oils as per specifications VW 502 00 (petrol) and VW 505 00 or VW 505 01 (SDI), (Diesel PD) and VW 505 01 (TDI).*
- *For countries with high sulphur content in Diesel, the Engine Oil Change Service must be carried out at every 7500 km. Countries where the sulphur content is higher*

Oil change service performed every 15,000 km or 1 year.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle battery cannot be disconnected after reprogramming. Power window drive - reprogram

Inform the customer in case of problems within a service scope that require a Repair action.

Ask the customer about installing new Windscreen wiper blades and adding window cleaning - G 052 131 A1- until 07/2005 and window cleaning - G 052 184 A2- until 08/2005 or cleaning and antifreeze product - G 052 164- to the Windscreen/rear window wiper system.

A tolerance of “up to 1,000 km” is acceptable, above or below the indicated mileage, in services based on mileage, and “one month”, after or before the indicated time, for services based on time.

Application	Windscreen/rear window washer additive	Proportion
Only for EUROPE	-G 052 164 A1- or -G 052 164 A2-	300 ml additive to 700 ml water
Tropical climate countries	-G 052 131 A1- until 07/2005	50 ml additive to 950 ml water
	-G 052 184 A2- as of 08/2005	100 ml additive to 990 ml water

Oil Change Service	Service
Engine compartment	
– Engine oil: refill Diesel engine: Identification letter BNM, filling capacity 4.2 l; standard 505 01 (VW). Diesel engine: Identification letter ASY, filling capacity 4.3 l; standard 505 00 (VW) or 505 01 (VW). Gas engines: Identification letter AQZ, filling capacity 3.3 l; standard 502 00 (VW). Gas engines: Identification letters BAH, BLH and CFZA, filling capacity 4.0 l; standard 502 00 (VW). Gas engine: Identification letter BMD, CHFB and CHFA, filling capacity 2.85 l; standard 502 00 (VW). Gas engine: Identification letter BKR, filling capacity 3.3 l; standard 502 00 (VW).	⇒ page 100

Oil Change Service	Service
– Engine oil filter: replace	⇒ page 104
– Battery: fill the electrolyte level (except for maintenance-free batteries and Europe).	
– Fuel filter: drain water (Vehicles with diesel engine using biodiesel as per DIN E 51 606 or for diesel vehicles that do not correspond to the DIN EN 590 standard).	
Vehicle on raised platform	
– Engine oil: drain or aspirate.	⇒ page 100
– Rear linings and pads: check thickness.	⇒ page 107
– Brake discs: check for wearing and corrosion	⇒ page 109
Concluding tasks	
– Maintenance and warranty booklet: record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74

2.17 Intermediary Service - ►2010 Models (Europe) and 2009► Models (Only for LAM)

Service based on time or kilometres travelled

Vehicles with “Service based on time or kilometers traveled” have the PR numbers: QG0.

The Intermediate Service is performed every 30,000 km or 2 years.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle battery cannot be disconnected after reprogramming. Power window drive - reprogram.

Note

In countries with high sulphur content on the diesel fuel, the engine oil must be changed every 7,500 km. Countries with higher sulphur content on the diesel are listed on .

Where faults are detected during the Interval Service, take the required actions to repair them and inform the customer about the events.

Ask the customer about installing new Windscreen wiper blades and adding window cleaning - G 052 131 A1- until 07/2005 and window cleaning - G 052 184 A2- until 08/2005 or cleaning and antifreeze product - G 052 164- to the Windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive	Proportion
Tropical climate countries	-G 052 131 A1- until 07/2005	50 ml additive to 950 ml water

Application	Windscreen/rear window washer additive	Proportion
	-G 052 184 A2- as of 08/2005	100 ml additive to 990 ml water

Note

- *Use highly-lubricant oils as per specifications VW 502 00 (petrol) and VW 505 00 or VW 505 01 (SDI), (diesel PD) and VW 505 01 TDI).*
- *For countries with high sulphur content in Diesel, the Engine Oil Change Service must be carried out at every 7500 km. Countries where the sulphur content is higher*

Intermediary Service - ►2010 Models (Europe) and 2009► Models (except for Europe)	Service
– Battery: check with Battery testing apparatus, with printer - VAS 5097A- or Battery testing apparatus, with printer - VAS 6161- .	
Tires and wheels	
– Spare wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front left wheel tire: check the state of tread, sides and depth of grooves _____ mm	⇒ page 95
– Rear left wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Rear right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front right wheel tire: check the state of tread, sides and depth of grooves _____mm.	⇒ page 95
– Tires: calibrate, including the spare wheel.	⇒ page 95
Engine compartment	
– Engine oil: refill Diesel engine: Identification letter BNM, filling capacity 4.2 l; standard 505 01 (VW). Diesel engine: Identification letter ASY, filling capacity 4.3 l; standard 505 00 (VW) or 505 01 (VW). Gas engines: Identification letter AQZ, filling capacity 3.3 l; standard 502 00 (VW). Gas engines: Identification letters BAH, BLH and CFZA, filling capacity 4.0 l; standard 502 00 (VW). Gas engine: Identification letter BMD, CHFB and CHFA, filling capacity 2.85 l; standard 502 00 (VW). Gas engine: Identification letter BKR, filling capacity 3.3 l; standard 502 00 (VW).	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Brake fluid level: check the level and top off if necessary.	
– Fuel filter: drain water (Vehicles with diesel engine using biodiesel as per DIN E 51 606 or for diesel vehicles that do not correspond to the DIN EN 590 standard).	⇒ page 126
Vehicle on raised platform	
– Engine oil: drain or aspirate.	⇒ page 100
– Brake system: perform a visual check for leaks and damage.	
– Rear linings and pads: check thickness.	⇒ page 107
– Brake discs: check for wearing and corrosion	⇒ page 109
– Shocks: visually check the mounting and for leaks (except for Europe)	

Intermediary Service - ►2010 Models (Europe) and 2009► Models (except for Europe)	Service
Concluding tasks	
– Maintenance and warranty booklet: Record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	⇒ page 74

2.18 Intermediary Service - 2011► Models (Only for Europe)

Service based on time or kilometres travelled

Vehicles with “Service based on time or kilometers traveled” have the PR numbers: QG0.

The Intermediate Service is performed every 30,000 km or 2 years.

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle battery cannot be disconnected after reprogramming. Power window drive - reprogram.

Note

In countries with high sulphur content on the diesel fuel, the engine oil must be changed every 7,500 km. Countries with higher sulphur content on the diesel are listed on .

Where faults are detected during the Interval Service, take the required actions to repair them and inform the customer about the events.

Ask the customer about installing new Windscreen wiper blades and adding window cleaning - G 052 131 A1- until 07/2005 and window cleaning - G 052 184 A2- until 08/2005 or cleaning and antifreeze product - G 052 164- to the Windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive	Proportion
Only for EUROPE	-G 052 164 A1- or -G 052 164 A2-	300 ml additive to 700 ml water
Tropical climate countries	-G 052 131 A1- until 07/2005	50 ml additive to 950 ml water
	-G 052 184 A2- as of 08/2005	100 ml additive to 990 ml water

Note

- *Use highly-lubricant oils as per specifications VW 502 00 (petrol) and VW 505 00 or VW 505 01 (SDI), (diesel PD) and VW 505 01 TDI).*
- *For countries with high sulphur content in Diesel, the Engine Oil Change Service must be carried out at every 7500 km. Countries where the sulphur content is higher*

Intermediary Service - 2011➢ Models	Service
Electric	
– Battery: check with Battery testing apparatus, with printer - VAS 5097A- or Battery testing apparatus, with printer - VAS 6161-	
– Passenger compartment's lighting, cigarette lighter, horn and control lights: check for proper operation.	
– Front lights: check operation of parking lights, low beam, high beam, fog lights, indicator system and warning lights	
– Rear lighting: check operation of brake lights (including the third brake light), rear lights, reverse lights, fog light, license plate light, boot lighting, indicator lights and warning lights.	
Tires and wheels	
– Spare wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front left wheel tire: check the state of tread, sides and depth of grooves _____ mm	⇒ page 95 ⇒ page 95
– Rear left wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Rear right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Tires: calibrate, including the spare wheel.	⇒ page 95
Vehicle exterior	
– Windscreen: check for damages	
– Rear window and windscreen wiper: check for proper operation.	⇒ page 93
– Rear window and windscreen wiper blades: check rest position and adjust if necessary; correct sweeping angle of malfunctioning blades.	⇒ page 95
Engine compartment	
– Engine oil: refill Diesel engine: Identification letter BNM, filling capacity 4.2 l; standard 505 01 (VW). Diesel engine: Identification letter ASY, filling capacity 4.3 l; standard 505 00 (VW) or 505 01 (VW). Gas engines: Identification letter AQZ, filling capacity 3.3 l; standard 502 00 (VW). Gas engines: Identification letters BAH, BLH and CFZA, filling capacity 4.0 l; standard 502 00 (VW). Gas engine: Identification letter BMD, CHFB and CHFA, filling capacity 2.85 l; standard 502 00 (VW). Gas engine: Identification letter BKR, filling capacity 3.3 l; standard 502 00 (VW).	⇒ page 100
– Engine oil filter: replace	⇒ page 104
– Brake fluid level: check the level and top off if necessary.	⇒ page 125
– Fuel filter: drain water (Vehicles with diesel engine using biodiesel as per DIN E 51 606 or for diesel vehicles that do not correspond to the DIN EN 590 standard).	

Intermediary Service - 2011► Models	Service
– Engine coolant: adjust anti-freeze proportion and refill. Theoretical value – 25° C (in Arctic climate countries – 35° C) actual value(value measured) ____ °C.	⇒ page 116
– Engine and engine compartment components (upper part): visually inspect for damages and leaks.	
– Rear window/windscreen washer: adjust water spray from nozzles and complete with additive coolant level in the reservoir.	⇒ page 93
– Headlight adjustment: check	⇒ page 126
Vehicle on raised platform	
– Engine and engine compartment components (lower part): visually check for leaks and damages.	
– Engine oil: drain or aspirate.	
– Brake system: perform a visual check for leaks and damage.	
– Rear linings and pads: check thickness.	⇒ page 107
– Brake discs: check for wearing and corrosion	
– Shocks: visually check the mounting and for leaks (except for Europe)	
Concluding tasks	
– Maintenance and warranty booklet: record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	

2.19 Inspection Service (Except for Brazil)

Service based on time or kilometres travelled

Vehicles with "Service based on time or kilometers traveled" have the PR numbers: QG0.

Inspection intervals

Vehicles with service conditioned to time or mileage, every 30,000 km or 2 years and every 60,000 km or 4 years (for Europe in vehicle models ►2007).

Vehicles with service conditioned to time or mileage, every 60,000 km or 3 years and every 60,000 km or 2 years (for Europe in vehicle models ►2008 and except for Europe in vehicle models 2009►).

Vehicles with service depending on time or kilometers traveled, at every 1 year, every 30,000 km and every 60,000 km (except for Europe for vehicle models ►2008).

If the vehicle travels 30,000 km, 60,000 km, etc. before 1 year, the Inspection Service for 30,000 km, 60,000 km, etc. must be carried out along with the 1-year inspection service.

If 30,000 or 60,000 kilometers traveled are reached after carrying out the 1-year Inspection Service, it will only be necessary to perform the exclusive items for the Inspection Service for each 30,000 km, or for the Inspection Service for each 60,000 km.

A tolerance of "up to 1,000 km" is acceptable, above or below the indicated kilometre travelled, in services based on kilometres travelled, and "one month", after or before the indicated time, for services based on time.

Note

- *Inform the customer in case of problems within a service scope that require a Repair action.*
- *Use highly-lubricant oils as per specifications VW 502 00 (petrol) and VW 505 00 or VW 505 01 (SDI), (Diesel PD) and VW 505 01 (TDI).*
- *For countries with high sulphur content in Diesel, the Engine Oil Change Service must be carried out at every 7500 km. Countries where the sulphur content is higher*

Notes for carrying out tasks

The sequence of each service operation was tested and optimized. It shall be adhered to so as to prevent unnecessary service interruptions.

If the battery is disconnected, the power window drive automatic closing function will not operate. Thus, this function must be reprogrammed before delivering the vehicle. The vehicle battery cannot be disconnected after reprogramming. Power window drive - reprogram.

Ask the customer about installing new Windscreen wiper blades and adding window cleaning - G 052 131 A1- until 07/2005 and window cleaning - G 052 184 A2- until 08/2005 or cleaning and antifreeze product - G 052 164 A1- to the Windscreen/rear window wiper system.

Application	Windscreen/rear window washer additive	Proportion
Only for EUROPE	-G 052 164 A1- or -G 052 164 A2-	300 ml additive to 700 ml water
Tropical climate countries	-G 052 131 A1- until 07/2005	50 ml additive to 850 ml water
	-G 052 184 A2- as of 08/2005	100 ml additive to 990 ml water

Service for vehicles with "service based on time and kilometers traveled"	Service
Electric	
– Battery: check with Battery testing apparatus, with printer - VAS 5097A- or Battery testing apparatus, with printer - VAS 6161- . ♦ for Europe in vehicle models 2011➢	
– Passenger compartment's lighting, cigarette lighter, horn and control lights: check for proper operation.	
– Front lights: check operation of parking lights, low beam, high beam, fog lights, indicator system and warning lights	
– Rear lighting: check operation of brake lights (including the third brake light), rear lights, reverse lights, fog light, license plate light, boot lighting, indicator lights and warning lights.	
– Driver and passenger airbags: conduct visual inspection regarding external damages. ♦ for Europe in vehicle models ➢2007 and except for Europe in vehicle models ➢2008)	⇒ page 92
– Self-diagnosis: Refer to the failure memory of every system with the Diagnosis, Measurement and Information System . ♦ for Europe in vehicle models ➢2007 and except for Europe in vehicle models ➢2008	⇒ page 75

Service for vehicles with “service based on time and kilometers traveled”	Service
– Dust and pollen filter: replace the air filter element. ♦ every 30,000 km ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ every 30,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ Heating, air conditioning; Rep. gr. 80 ; Heating
Vehicle exterior	
– Windscreen: check for damages. ♦ for Europe in vehicle models 2011►	
– Rear window and windscreen wiper: check for proper operation.	⇒ page 95
– Rear window and windscreen wiper blades: check rest position and adjust if necessary; correct sweeping angle of malfunctioning blades.	⇒ page 95
– Body and paint: check for damages. ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008. ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008►	
– Sun roof: check operation, clean the guide rails and lubricate them with Special grease - G 000 450 02- . ♦ every 30,000 km ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 84
Tires and wheels	
– Spare wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front left wheel tire: check the state of tread, sides and depth of grooves _____ mm	⇒ page 95
– Rear left wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Rear right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Front right wheel tire: check the state of tread, sides and depth of grooves _____ mm.	⇒ page 95
– Tires: calibrate, including the spare wheel.	⇒ page 95
Underside of the vehicle	
– Engine oil: drain or aspirate	⇒ page 100
– Engine and engine compartment components (lower part): visually check for leaks and damages.	
– Poly-V belt: check conditions. ♦ every 60,000 km ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► except for Europe in vehicle models 2009►.	⇒ page 104

Service for vehicles with “service based on time and kilometers traveled”	Service
– Gearbox: check for damage and leaks, including the state of the constant velocity joint bellows.	⇒ page 105
– Manual gearbox: check the oil level. ♦ every 30,000 km ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►.	⇒ page 105 .
– Brake system: perform a visual check for leaks and damages.	
– Rear linings and pads: check thickness.	⇒ page 107
– Brake discs: check for wearing and corrosion	⇒ page 109
– Lower floor protection: visually check for damages.	
– Steering bar articulation tips: check the swivel joint gaps, mounting and state of the protection bellows.	
– Front suspension arm articulations: check for fastening and clearance, as well as for damage and leakages in sealing bellows.	
– Stabilizer stops and rubber bushings of the front and rear suspension arms: check for damages ♦ only Europe 2011► models	
– Springs and rubber stops of front and rear shocks ♦ only Europe 2011► models	
– Rear wheels: adjust roller bearing gaps. ♦ only for vehicles without ABS equipped with engines: AQZ, BAH, BLH, and CFZA manufactured as of 01/07/2007.	⇒ page 113
– Exhaust system: perform a visual check for leaks and damages.	
– Fuel filter: replace. ♦ Identification letters AQZ, BAH, BLH, and CFZA. ♦ every 30,000 km	⇒ page 126
Engine compartment	
– Engine oil filter: replace	⇒ page 104
– Engine oil: refill Diesel engine: Identification letter BNM, filling capacity 4.2 l; standard 505 01 (VW). Diesel engine: Identification letter ASY, filling capacity 4.3 l; standard 505 00 (VW) or 505 01 (VW). Gas engines: Identification letter AQZ, filling capacity 3.3 l; standard 502 00 (VW). Gas engines: Identification letters BAH, BLH and CFZA, filling capacity 4.0 l; standard 502 00 (VW). Gas engine: Identification letter BMD, CHFB and CHFA, filling capacity 2.85 l; standard 502 00 (VW). Gas engine: Identification letter BKR, filling capacity 3.3 l; standard 502 00 (VW).	⇒ page 100
– Engine and engine compartment components (upper part): visually inspect for damages and leaks.	
– Rear window/windscreen washer: adjust water spray from nozzles and complete with additive coolant level in the reservoir.	
– Engine oil: fill oil (inspection service with oil change) ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►.	⇒ page 100

Service for vehicles with “service based on time and kilometers traveled”	Service
– Engine coolant: adjust anti-freeze proportion and refill. Theoretical value – 25° C (in Arctic climate countries – 35° C) actual value (value measured) ____ °C.	⇒ page 116
– Spark plugs: replace. ♦ every 60,000 km or 4 years, whichever occurs first	⇒ page 118
– Timing belt and tensioning pulley for camshaft drive: replace. Additional work with separate payment! ♦ Diesel engine: identification letters ASY. ♦ every 150,000 km	⇒ page 120
– Timing belt for camshaft drive: replace. Additional work with separate payment! ♦ Diesel engine: identification letters BNM. ♦ every 90,000 km. ♦ for Europe in vehicle models ➢2007 ♦ every 150,000 km ♦ for Europe in vehicle models 2008➢.	⇒ page 120
– Timing belt for camshaft drive: check conditions. ♦ 4-cylinder petrol engines. ♦ Identification letters AQZ, BAH, BLH, BKR and CFZA. ♦ at 90,000 km and at every 30,000 km	⇒ page 120
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters BAH and BLH. ♦ Every 60,000 km or 4 years, whichever occurs first	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ Identification letters CFZA. ♦ Every 30,000 km or 2 years, whichever occurs first	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters AQZ and BKR. ♦ Every 30,000 km or 2 years, whichever occurs first	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ engine identification letters ASY, BKR, BNM, BMD, BMD, CHFB and CHFA. ♦ every 60,000 km or 4 months, whichever occurs first.	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Fuel filter: replace. ♦ Only for diesel engine vehicles according to DIN EN 590. ♦ every 60,000 km	⇒ page 126
– Fuel filter: replace. ♦ Only for Biodiesel vehicles as per DIN E 51606 and for diesel vehicles that do not correspond to the DIN EN 590 standard. ♦ every 30,000 km	⇒ page 126
– Fuel filter: drain water. ♦ Only for diesel engine vehicles according to DIN EN 590 (only ASY engine). ♦ at 30,000 km and then at every 60,000 km.	⇒ page 126

Service for vehicles with “service based on time and kilometers traveled”	Service
– Brake fluid: replace every 2 years (additional work to be billed separately!) ♦ every 2 years. ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008). ♦ at 3 years and every 2 years for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►.	⇒ page 122
– Brake fluid: refill (depending on pad wearing. ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008.	⇒ page 122
– Battery: fill the electrolyte level (except for maintenance-free batteries).	
– Power steering: check the oil level. ♦ at every 60,000 km (except for maintenance-free).	⇒ page 118
– Carry out an exhaust gas inspection/additional work with separate payment! ♦ 3 years after the first registration, and then at every two years.	
Concluding tasks	
– Headlight adjustment: check ♦ every 30,000 km. ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►.	⇒ page 126
– Maintenance and warranty booklet: Record the date and mileage of next service	
– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).	
– Perform a test run.	

2.20 Supplementary services based on time elapsed and/or mileage (Except for Brazil)

Besides the oil change or inspection service — which depends on the conditions of usage and optional equipment in the vehicle — performing supplementary maintenance works is necessary.

Also, it is possible to perform additional works, by considering the records in the service plan (or on the adhesive tag: Your next service), out of the regular maintenance intervals.

At every 30,000 km

Supplementary services	Page
– Dust and pollen filter: clean the body and replace the air filter element ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ for vehicles with mileage over 30,000 km, within a 2-year period ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 104
– Headlights: adjust the beams ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008	⇒ page 126

Supplementary services	Page
– Sun roof: check operation, clean the guide rails and lubricate them with Special grease - G 000 450 02- ♦ for Europe in vehicle models ➢2007 and except for Europe in vehicle models ➢2008	⇒ page 84
– Manual gearbox: check the oil level. ♦ for Europe in vehicle models ➢2007 and except for Europe in vehicle models ➢2008	⇒ page 105 .
– Fuel filter: replace (only vehicles with AQZ, BAH, BLH and CFZA engines)	⇒ page 126
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters AQZ and BKR. ♦ for vehicles with mileage over 30,000 km, within a 2-year period	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ Identification letters CFZA. ♦ for vehicles with mileage over 30,000 km, within a 2-year period	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Fuel filter: drain water. ♦ Only for diesel engine vehicles according to DIN EN 590 (only ASY engine). ♦ at 30,000 km and at every 60,000 km	
– Fuel filter: replace ♦ Only for Biodiesel vehicles as per DIN E 51606 and for diesel vehicles that do not correspond to the DIN EN 590 standard.	⇒ page 126

At every 60,000 km

Supplementary services	Page
– Headlights: adjust the beams ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008➢ and except for Europe in vehicle models 2009➢	⇒ page 126
– Manual gearbox: check the oil level. ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008➢ and except for Europe in vehicle models 2009➢	⇒ page 105
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters BAH and BLH. ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ engine identification letters ASY, BKR, BNM, BMD, CHFB and CHFA. ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period.	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Spark plugs: replace ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period ♦ Checking data, spark plugs Ignition ⇒ Ignition system ; Rep. gr. 28 ; Ignition system .	⇒ page 118
– Fuel filter: replace ♦ (only for diesel engine vehicles according to DIN EN 590).	⇒ page 126
– Fuel filter: drain water. ♦ Only for diesel engine vehicles according to DIN EN 590 (only ASY engine).	

Supplementary services	Page
– Poly-V Belt: check the condition; in vehicles without automatic tensioning element, adjust the tension. ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008 ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 104
– Power steering: check the oil level.	⇒ page 118
– Sun roof: check operation, clean the guide rails and lubricate them with Special grease - G 000 450 02- ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 84
– Body and paint: check for damages. ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	

At every 90,000 km

Supplementary services	Page
– Timing belt for camshaft drive: check conditions ♦ Diesel engine: identification letters BNM. ♦ for Europe in vehicle models ►2007	⇒ page 120

At 90,000 km and, then, at every 30,000 km)

Supplementary services	Page
– Timing belt for camshaft drive: check conditions ♦ 4-cylinder petrol engines: identification letters AQZ, BAH, BLH, BKR and CFZA	⇒ page 120

At every 150,000 km

Supplementary services	Page
– Timing belt and tensioning roll for camshaft drive: replace ♦ Diesel engine: identification letters ASY. ♦ extra work to be billed separately!	⇒ page 120
– Timing belt for camshaft drive: check conditions ♦ Diesel engine: identification letters BNM. ♦ for Europe in vehicle models 2008►	⇒ page 120

At every 2 years

Supplementary services	Page
– Dust and pollen filter: clean the body and replace the air filter element ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	

Supplementary services	Page
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters AQZ and BKR. ♦ for vehicles with mileage over 30,000 km, within a 2-year period	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ Identification letters CFZA. ♦ for vehicles with mileage over 30,000 km, within a 2-year period	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Brake fluid: replace ♦ for Europe in vehicle models ►2007 and except for Europe in vehicle models ►2008	

3 years after the delivery inspection; then, every 2 years

Supplementary services	Page
– Headlights: adjust the beams ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	
– Poly-V Belt: check the condition; in vehicles without automatic tensioning element, adjust the tension. ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 104
– Manual gearbox: check the oil level. ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 105
– Brake fluid: replace ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 122
– Carry out an exhaust gas inspection/additional work with separate payment! ♦ in function of the country's legislation	
– Sun roof: check operation, clean the guide rails and lubricate them with Special grease - G 000 450 02- ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	⇒ page 84
– Body and paint: check for damages. ♦ at every 60,000 km or 3 years and then at every 60,000 km or 2 years ♦ for Europe in vehicle models 2008► and except for Europe in vehicle models 2009►	

At every 4 years

Supplementary services	Page
– Air filter: replace the air filter element and clean the filter case. ♦ identification letters BAH and BLH. ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period.	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Air filter: replace the air filter element and clean the filter case. ♦ engine identification letters ASY, BKR, BNM, BMD, CHFB and CHFA ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period.	⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection
– Spark plugs: replace ♦ for vehicles with kilometers traveled over 60,000 km, within a 4-year period. ♦ Checking data, spark plugs Ignition ⇒ Ignition system ; Rep. gr. 28 ; Ignition system .	⇒ page 118

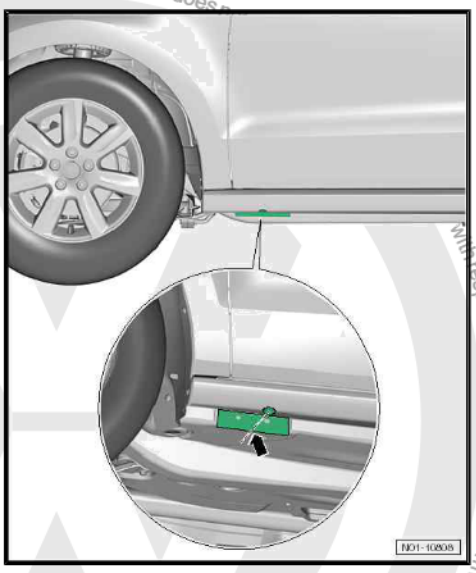
2.21 Lifting the vehicle with a workshop lift and jack

WARNING

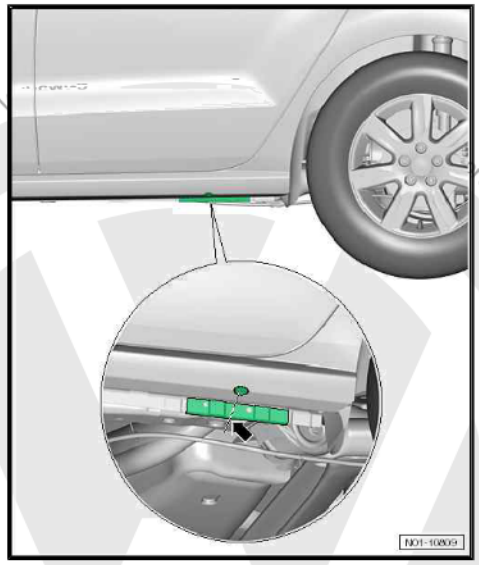
- *Before driving a vehicle onto a hoist, please make sure that there is enough space between the hoist and the lower body parts.*
- *The vehicle may only be lifted in the support points indicated in the illustrations below in order to avoid damaging the vehicle floor and prevent the vehicle from tipping.*
- *Never start the engine and engage a gear with the vehicle lifted, even if only one drive wheel is on the floor. If these guidelines are not followed, there will be risk of an accident!*
- *When it is necessary to work under the vehicle, it must be supported onto appropriate stands.*
- *Before placing a vehicle on an lift, make sure that the vehicle weight does not exceed the authorized load capacity of the lift.*
- *To prevent damage, always use a suitable rubber or wooden support.*
- *Under no circumstances must the vehicle be lifted by the oil crankcase, transmission, front or rear axles.*
- *The vehicle must not be lifted by the vertical reinforcement of the longitudinal member.*

2.21.1 Support points for workshop lift and jack

Front section: In the longitudinal reinforcement of the central longitudinal member.



Rear section: At the welded flange reinforcement of the side member.



Note

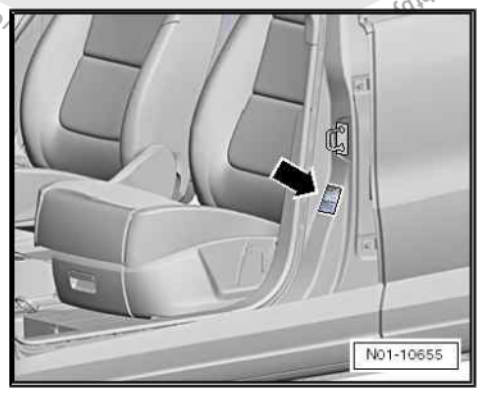
For anchorage of the Crossfox and Space Cross, using electro-hydraulic hoists, refer to the Tools and Equipment Manual.

2.22 Service seal: write down the date of the next service (including brake fluid change) and attach label to the left side of the dashboard

2.22.1 Stick the tag “Next service” (upon Delivery inspection):

– On the service label, write down the date of the next service (including brake fluid change) and affix the label on the left side of the command panel or on the left door pillar (B).

The stamp or tag may also be attached to the left lower corner (internal side) of the Windscreen, with the “FRONT” facing outside the vehicle (check instructions in the Service Organization Manual).



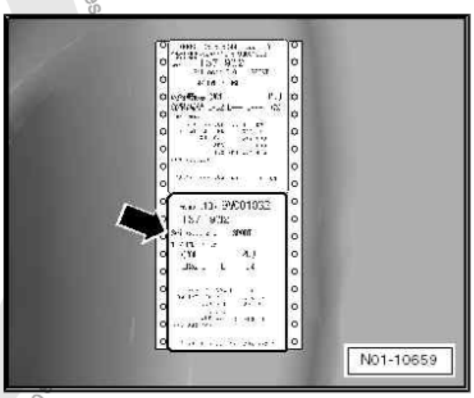
2.22.2 Stick the tag “Next service” (upon Oil Change Service or Inspection Service):

– On the service tag “Next service”: Mark the Oil Change Service or Inspection Service (whichever occurs first) and write down the date and mileage travelled.

– Place the tag on the left side of the dash panel or on the drivers' door pillar (B-pillar).

The stamp or tag may also be attached to the left lower corner (internal side) of the Windscreen, with the "FRONT" facing outside the vehicle (check instructions in the Service Organization Manual).

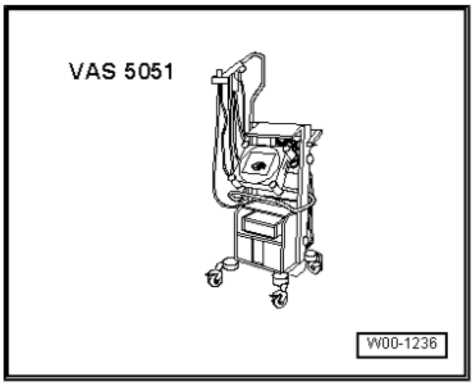
2.22.3 Place the "data holder" in the client's service plan (upon Delivery inspection):



– Please attach both upper data holders -arrow-.

2.23 Self-diagnosis: refer to the fault memory of all systems

2.23.1 Refer to the fault memory of all systems with the Diagnosis, Measurement and Information System



Special tools and workshop equipment required

- ♦ Vehicle diagnostic and service information system
- ♦ Diagnosis cable - VAS 5051/3- or -VAS 5051/6-

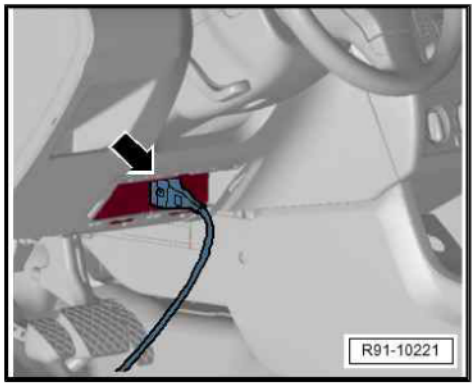
2.23.2 Connect the Diagnosis, Measurement and Information System

– Operate the handbrake.

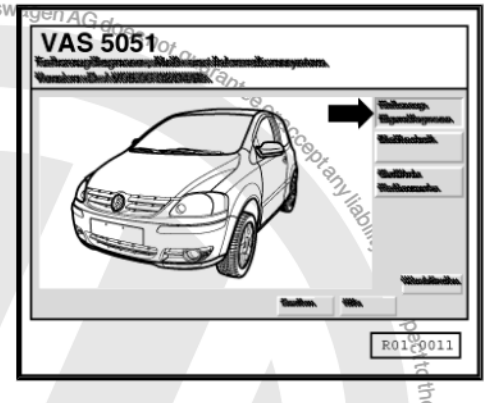
– Mechanical transmission: Selector lever in neutral gear position.

Connect the Vehicle diagnostic and service information system to Diagnostics cable - VAS 5051/3- or -VAS 5051/6- with the ignition turned off as follows:

– Turn the ignition on.



Indicated on display:



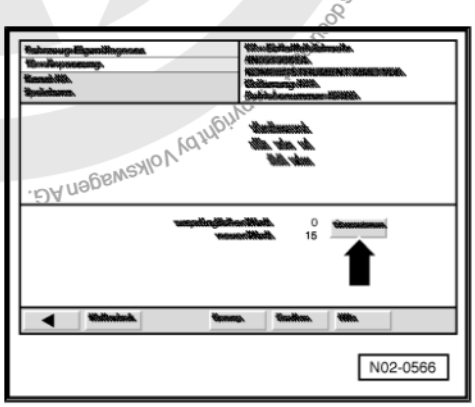
2.23.3 Select the operation mode:

– On the display, press the key for “Vehicle self-diagnosis” -arrow-.

Note

If the messages indicated with the operation sequence in the display do not appear on the display: ⇒ Vehicle diagnostic tester.

Indicated on display:



2.23.4 Select the vehicle system:

– On the display, press “Entire system” -arrow-

– The Diagnosis, Measurement and Information System sends all known keywords in sequence.

If a command unit replies with its identification, the display informs the number of faults or “No fault detected”.

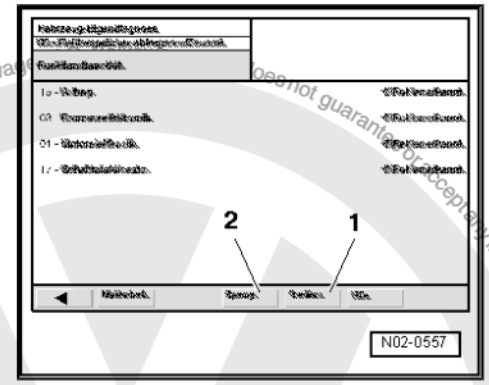
Any faults stored in a system will be listed. Then, the Diagnosis, Measurement and Information System sends the next keyword.

The automatic verification process is completed when the following indication is displayed:

– On display, press the “Print”key-1- and, in the print menu, press “Screen”.

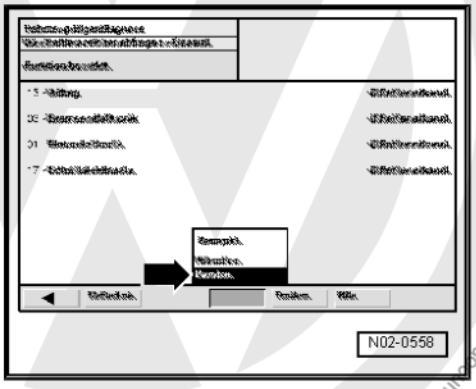
The Diagnosis, Measurement and Information System prints all faults or “0 fault(s) detected”. If there are faults stored in the system, repair measures are required. The fault protocol must be sent together for repair.

– On the display press the “Skip”key-2-.



Indicated on display:

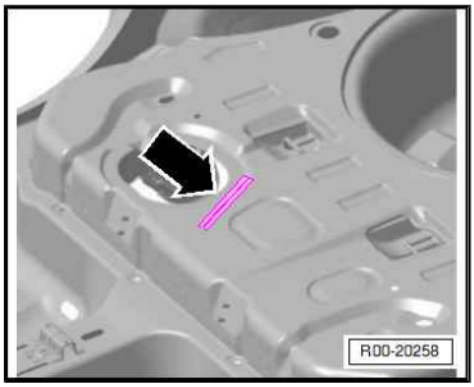
– On the display press the “End”key-arrow-.
– Press the “End” key on the conclusion menu.
– Switch the ignition off and disconnect the diagnosis connector.



2.24 Vehicle identification data

2.24.1 Vehicle identification number“VIN”- location

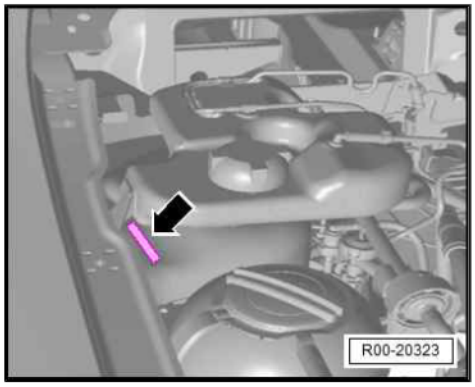
The vehicle identification number (chassis number) -arrow- is engraved on the floor plate under the rear seat, next to the fuel pump access cover.

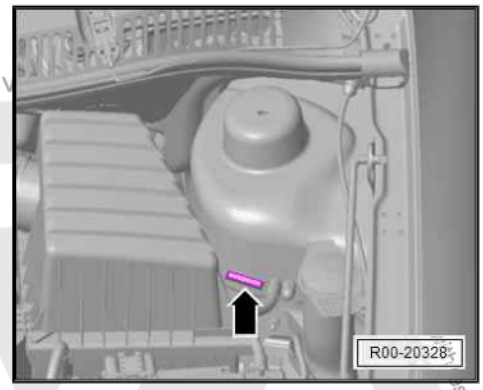


2.24.2 VIS tag - location

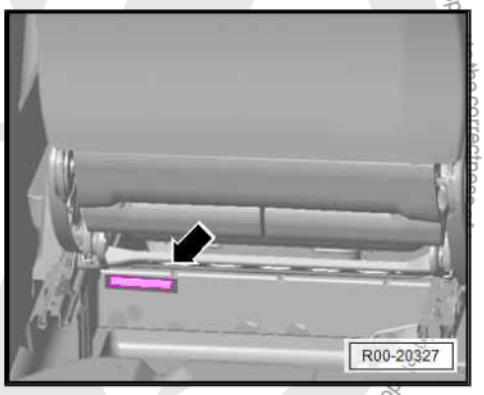
Destructive label with partial chassis number (VIS).

The first VIS label -arrow- is attached over the right or left side suspension housing.

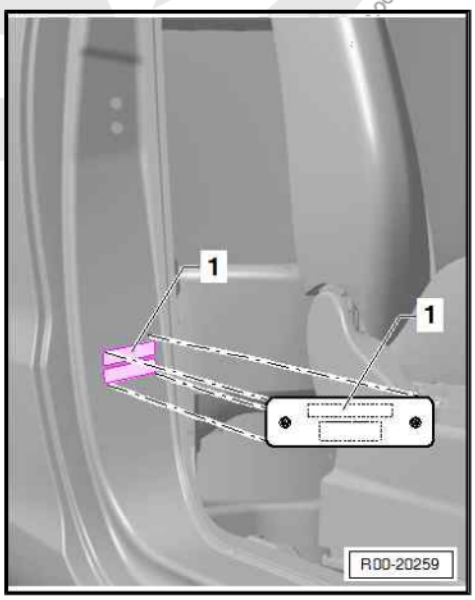




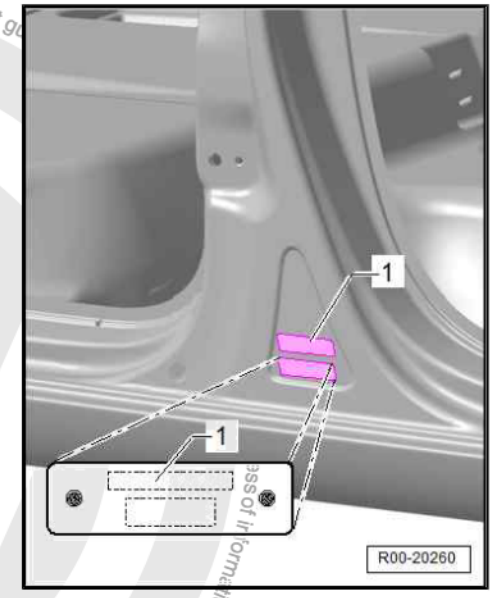
The second VIS label -arrow- is located on the left seat cross piece and may be seen from the rear side, through an opening on the floor carpet.



The third VIS label -1- is located on the right B-pillar (2 doors) . It becomes visible after opening the right front door.



The third VIS label -1- is located on the right B-pillar (4 doors) . It becomes visible after opening the right front door.



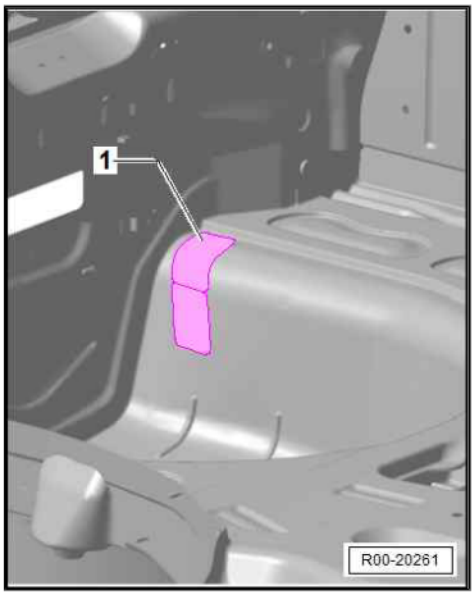
2.24.3 Identification plate

Refer to the body manual ⇒ Body Repairs; Rep. gr. 00 ; Technical data .

2.24.4 Vehicle identification tag - location

The vehicle identification tag -1- is located on the rear section of the vehicle, on the spare wheel housing, left side of the rolling direction.

Contents:



2.24.5 Meaning of vehicle identification number:

9BW	CA0	5z	9	4	T	000 001
Manufacturer brand	Complementary digit	Type	Complementary digit	2004 year model	Manufacturing sites	Sequential number

2.25 Engine oils

2.25.1 Approved standards for automotive engine oils

Gasoline and Totalflex engines

vehicles with PR number (QG0)	
Engines	VW standards
Petrol and Total flex	502 00 to MY2014
	508 88 as of MY2014

2.25.2 Oil properties

Multipurpose oils, as per VW 502 00/ 508 88 standard:

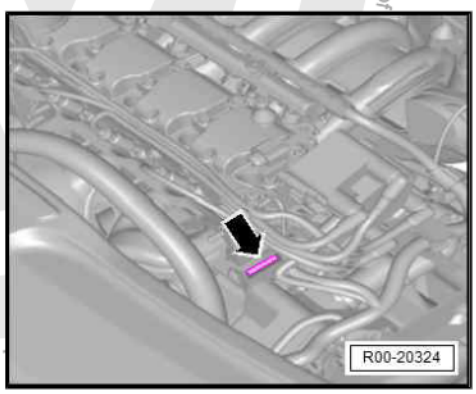
- Especially suitable to b used under adverse operation conditions, such as roads with poor use conditions with maximum cargo and towed vehicle, frequent travels in mountain regions and hot climate zones.

> **WARNING**
>
> - *Follow the rules for disposal!*

2.26 Identification letters and engine number

2.26.1 AQZ, BAH, BJE, BNX, BJA, BPA, CPBA, CCNA and CCRA engines.

The engine identification letters and number are engraved in the cylinder block -arrow-, beneath the thermostatic valve frame. Additionally, the upper mechanical distribution cover has a sticker with the engine identification letters and serial number. Additionally, the engine identification letters are indicated in the vehicle identification label.



2.27 Push starting (pushing the vehicle to start)/towing

Push starting and towing are carried out in different ways depending on the legislation of each country.

If the vehicle is provided with a towing hook, then a tow cable or tow bar should be attached to the front or rear hook.

Note

- *The tow cable should be elastic, so both vehicles are protected. Thus, only synthetic cables or made of similar elastic materials can be used. Yet, the safest procedure is to use a tow bar!*
- *First, make sure there are no inadequate drive forces and no impact loads. On towing manoeuvres on dirt roads, there is always the risk of overloading and, therefore, damaging the fastening parts.*
- *Before push starting a vehicle (pushing the vehicle), try to push start by using the battery from another vehicle.*

If the vehicle is push started or towed, please note the following:

Whenever possible, it is recommended that the vehicle is not pushed for a push start. Instead, use the auxiliary starting cables.

- The legal requirements for towing vehicles must be complied with.
- Both drivers must be experienced in towing vehicles. Inexperienced people should not try push starting or towing a vehicle.
- When using a tow cable, the driver of the towed vehicle must carefully release the clutch when starting to move and when shifting gears.
- The driver of the towed vehicle must ensure the cable is always taut.
- The warning lights of both vehicles must be turned on, and other legal requirements must also be observed, if necessary.
- The ignition must be switched on so that the steering wheel is free and the warning lights, horn, Windscreen wipers and washer are ready for use.
- Once the servo brake only operates with the engine on, it is necessary to step much harder on the brake pedal when the engine is turned off.
- Since the power steering does not work while the engine is switched off, more strength is required to manoeuvre when the engine is switched off.
- If there is no lubricant in the automatic transmission, the vehicle can only be towed with the drive wheels lifted.

2.27.1 If push starting still is required against our recommendations, the following points must be observed for vehicles with mechanical gearbox:

– Before jump starting, press the clutch pedal and engage the 2nd or 3rd gear.
– Turn the ignition on.
– Release the clutch pedal only when both vehicles are moving.
– As soon as the engine starts, press the clutch pedal and shift to dead centre to avoid a collision with the vehicle ahead (tractor).

Note

In vehicles equipped with catalytic converter, the engine should not be started by pushing the vehicle for more than 50 meters if the catalytic converter is hot. The unused fuel may get into the catalytic converter and damage it.

For greater distances, the front part of the vehicle must be lifted.

With a towing vehicle, the vehicle may only be towed with the front wheels lifted.

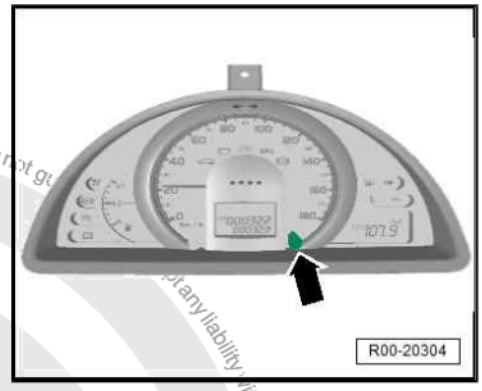
Reason: With the vehicle suspended by the rear wheels the drive shafts spin backwards when the vehicle is thus towed. This allows planetary gears to reach rotations so high that the gearbox is quickly damaged.

2.28 Clock (if available): set correct time

Set the clock as follows:

Set the hours (2-line display):

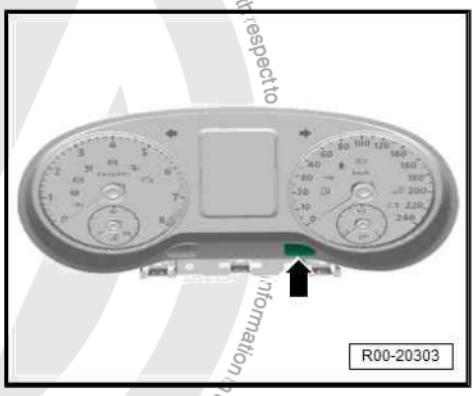
- With the ignition on, select the clock function, pressing the button -arrow- for less than 2 seconds. There will be a clock symbol beside the time.
- To activate the hour set function, keep the button -arrow- pressed until the display starts flashing, then press the button -arrow- quickly, the numbers will change sequentially in ascending order.



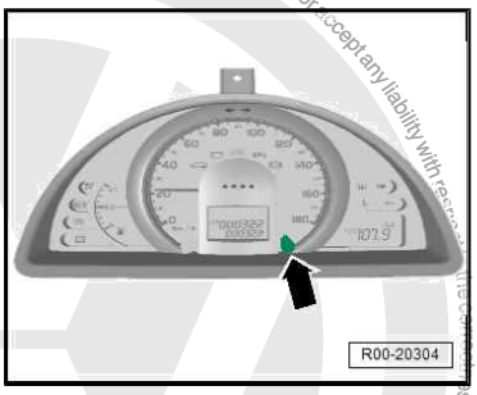
New Fox

Set the minutes:

- To activate the minute set function, keep the button -arrow- pressed until the display starts flashing, then press the button -arrow- quickly, the numbers will change sequentially in growing order.



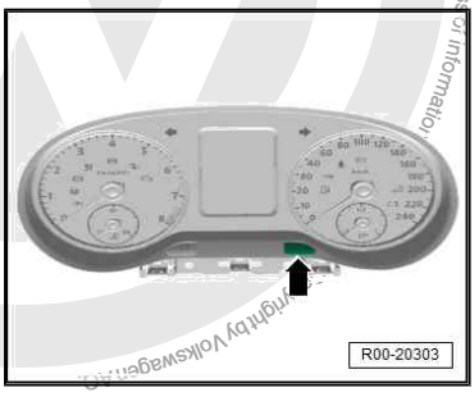
– Press the button -arrow- for more than 2 seconds to go back to partial mileage recorder function.



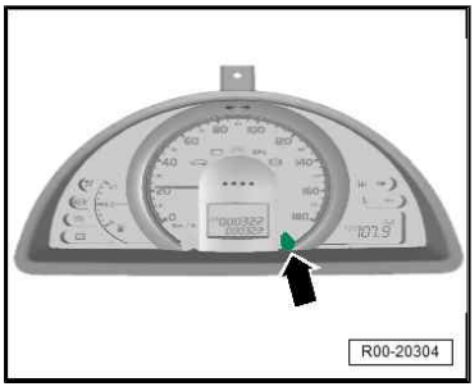
New Fox

Set the hours (3-line display):

– There will be a clock symbol beside the hour.



– To set the hour, with the ignition on and without the radio information on the display, slightly turn the button -arrow- counterclockwise. To set the minutes, turn the button -arrow- clockwise.
– One small turn to the striker changes only one unit at a time. If the button is turned and kept pressed, the numbers will change sequentially in ascending order.
– To set the minutes correctly based on another clock, move the button -arrow- until it reaches one unit before the exact minute. At the moment the other clock reaches the full minute, turn the button again to the right.



2.29 Maintenance interval indicator: reset

♦ with the Diagnosis, Measurement and Information System

2.29.1 Reset the in service interval indicator by using the return button of the partial mileage recorder (2010► vehicles)

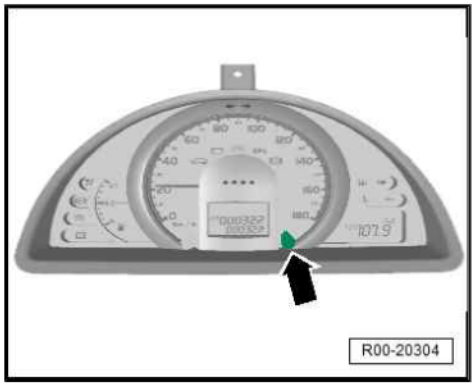
The service interval indicator must be

♦ reset at the delivery inspection, at every oil change service, and at every inspection service!

Reset the indicator as follows:

– Turn the ignition off.

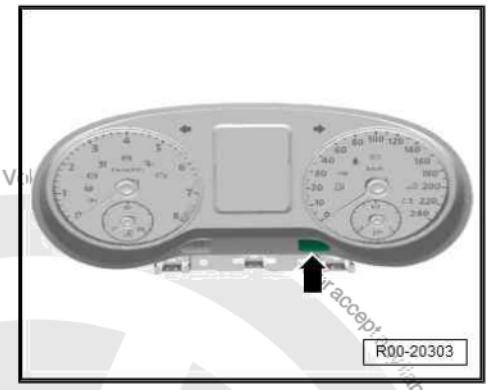
– Press and hold the button -arrow- next to the speedometer.



Novo Fox

– Turn the ignition on.
– Hold the button at the right of speedometer during approximately 10 seconds.

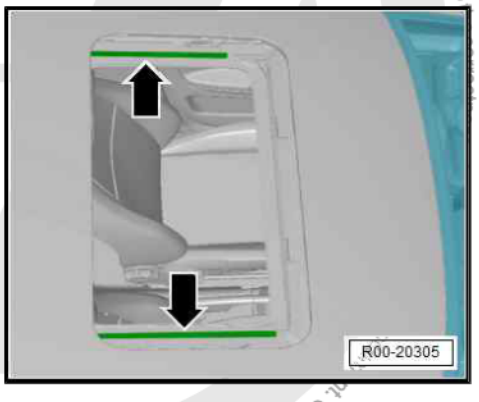
The display resumes the normal indication.



2.30 Sun roof: check and lubricate

Carry out the following work procedures:

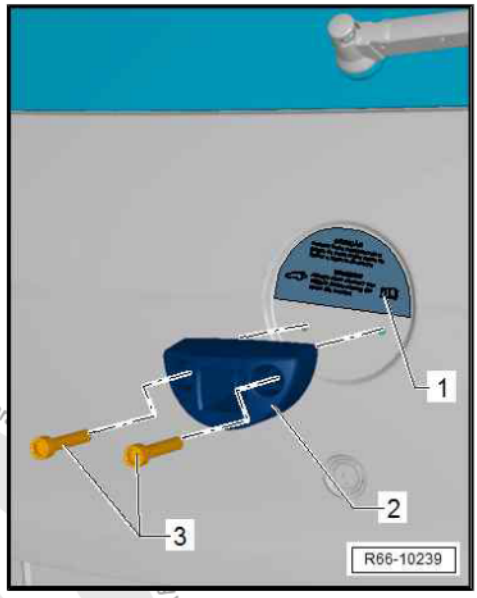
– Check operation of sun roof.
– Clean the guide rails -arrows- and lubricate with Special grease - G 000 450 02- .



2.31 Spare wheel torque reaction support (only CrossFox): lubricate

– Any grease residue (contaminated grease) must be removed from the striker.

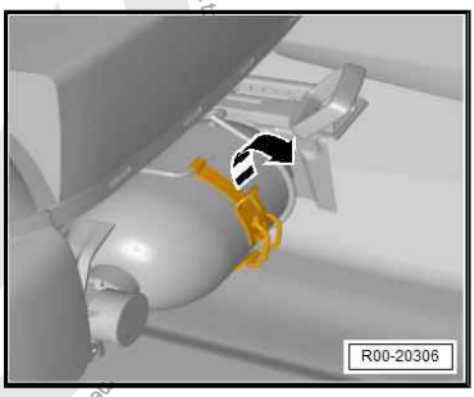
– Lubricate the striker inside -2- with Silicone grease - G000 405 A2-



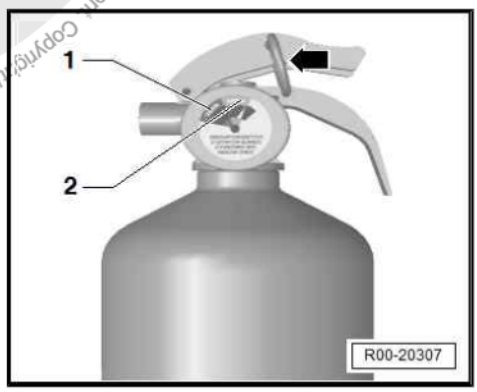
2.32 Fire extinguisher: check fastening and load (remove the plastic protection)

Location: fastened to a bracket on the front lower part of the passenger's seat

The pressure gauge indicator must be on the green range -2-, check the indicator and pressure scale:



- Green range -2-= the extinguisher is charged.
- Red range -1-= the extinguisher is discharged.
- Inviolability seal -arrow-.



Note

- *Check for possible oxidation and for fastening of components.*
- *The vehicle fire extinguisher is designed to be used only once, and the expiration date is defined by law!*
- *Check the expiration date printed on the extinguisher's cylinder.*
- *The inviolability seal -arrow- ensures that the fire extinguisher has not been used.*
- *Whenever used, the extinguisher must be immediately recharged.*
- *Driving vehicles with extinguishers which are out-of-date or in poor condition of use is forbidden by law.*

2.33 Automatic window closing (if available): program

Note

When the battery is disconnected and then reconnected, the power window drive will not be completely operational. The window drives must be reprogrammed before the vehicle's delivery. The vehicle's battery should not be disconnected after reprogramming.

Carry out the following work steps to initialise the electric window drive:

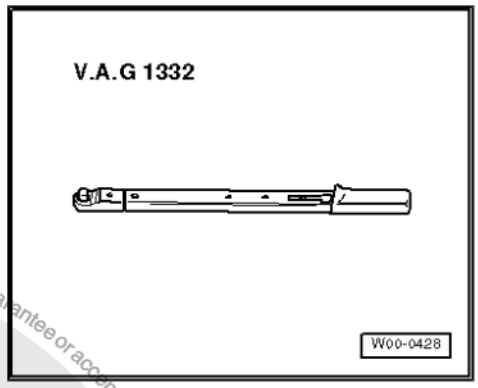
– Press the key until the window is fully closed, keeping it pressed for a few more seconds.

– Repeat this operation for the other doors.

2.34 Wheel fastening screws: retighten based on specified torque

Special tools and workshop equipment required

♦ Torque Wrench - 40 to 200 Nm (1/2” drive) - VAG 1332-



2.34.1 Hub cap/Super hub cap

The hook for removing the hub cap/ super hub cap is in the vehicle tool kit

2.34.2 Wheel bolts

Note

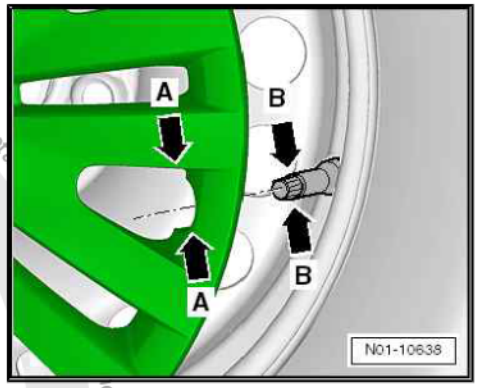
Make sure that the wheel nuts are tightened in a cross pattern with the following tightening torque:

Tightening torque: 120 Nm.

– After the works are concluded, place the hub cap/super hub cap removal hook with the vehicle tools.

2.34.3 Super hub cap assembly (if available)

– Install the super hub cap in order for the inflation valve -B- to be positioned in the opening-A- for this purpose.



2.35 Battery: manually check the firm seating of the pole bornes

2.35.1 Battery - check fastening

Note

Due to manufacturing reasons, different types of batteries are installed. Specific work deviations and instructions must be observed for each battery type ⇒ Electrical equipment; Rep. gr. 27 ; Starter, generator, battery

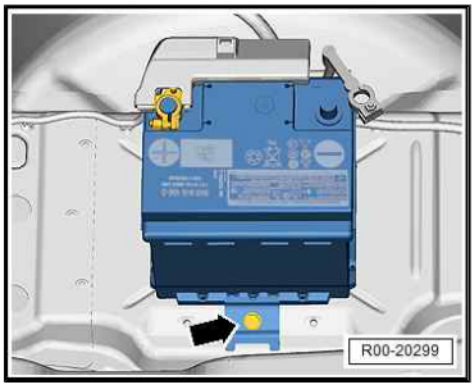
Visual checking

Carry out work sequence as follows:

– Check the battery case for damage. If the case is damaged, battery electrolyte may leak.

– Check the battery poles (Battery cable connections) for damage. If the battery poles are damaged, this will compromise the contact with the cable connections. This may cause a fire and there may be electrical system failures.

– Check the battery fastening -arrow- and, if necessary, tighten the fastening screw to 25 Nm



If the battery is not firmly fastened, the following may happen:

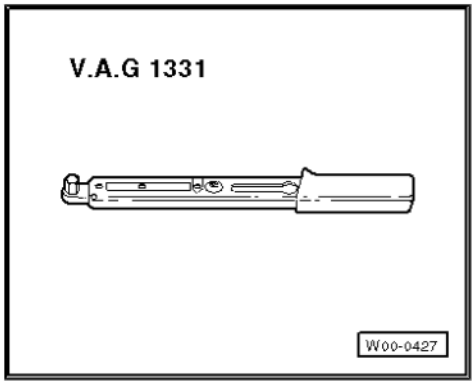
- The battery service life may be reduced because of vibration.
- Damage to the battery case.
- Safety issues in case of collision.

2.35.2 Terminal seating

Properly seated battery terminals ensure the perfect operation of the electrical system and a long battery service life.

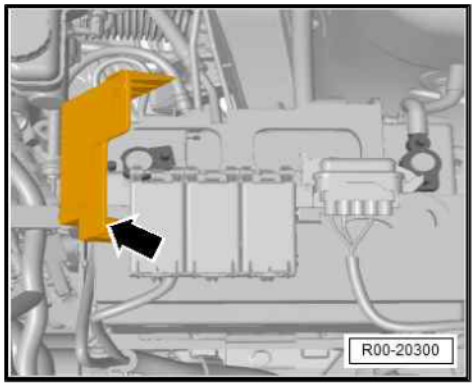
Special tools and workshop equipment required

♦ Torque wrench - 5 to 50 Nm (1/2” drive) - VAG 1331-

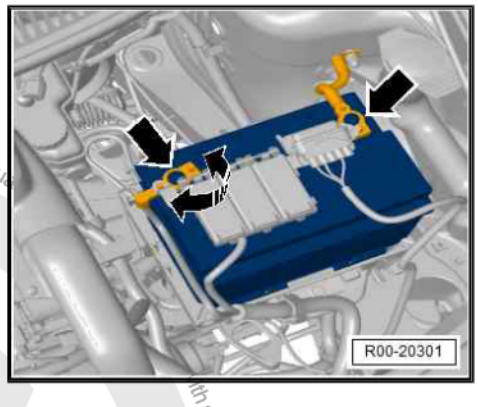


Carry out work sequence as follows:

– Compress locks and tilt the battery's positive pole cover -arrow-



– With alternate movements of the positive and negative battery cables, check if the terminals -arrows- are firmly fastened to the battery poles.

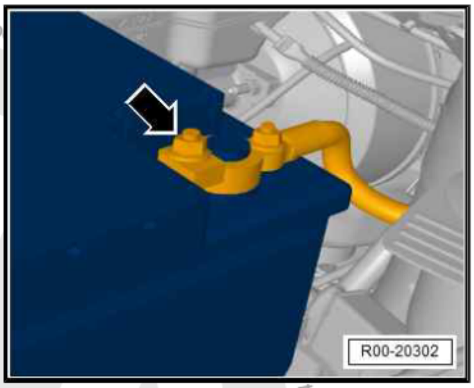


WARNING

If the terminal is not firmly fastened to the battery pole, first you must disconnect the terminal connected to the negative battery pole to avoid risk of accidents.

If the terminal is not firmly fastened to the positive battery pole:

– Tighten the screws in the battery terminals to a torque of 5 Nm -arrow-.



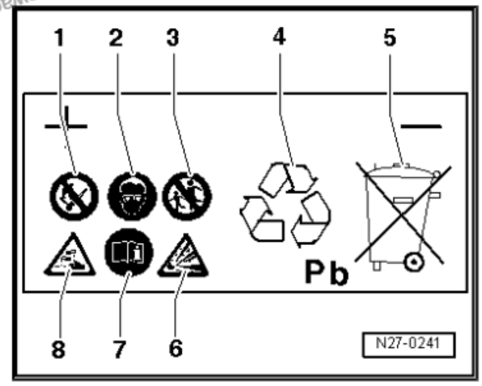
Note

- *The tightening torque for the additional battery terminals is 6 Nm.*
- *Battery poles should not be lubricated.*
- *The battery pole terminals can only be connected manually and should not be forced, thus avoiding damage to the battery case.*
- *When reconnecting the battery, check the vehicle equipment (radio, clock, electrical components of the convenience system, power window drive, etc.), according to the repair manual and/or instruction manual.*
- *It is essential that you make a visual inspection of the external condition and the battery connections before any measurements.*

WARNING

Pay attention on the warning notes and safety rules for lead and acid batteries, represented by symbols on the battery label.

Warning notes and safety rules for lead and acid batteries



1 - Producing fire, sparks, open flames and smoking is prohibited:

– Avoid the production of sparks and electrostatic discharges when handling electrical cables and equipment;

– Avoid short circuits (never lay tools on the top of a battery).

2 - Wear protective goggles.

3 - Keep children away from the acid and the batteries.

4 - Recycling:

– Dispose of old batteries at a battery collection centre (supplier).

5 - Never discard old batteries in domestic waste!

6 - Risk of explosion:

– A highly explosive mix of oxydric gas is produced when charging batteries.

7 - Observe the information provided on the battery, in the repair manual for the electrical system and in the operations manual.

8 - Risk of chemical corrosion.

– The battery acid is highly corrosive; therefore, wear protection goggles and gloves;

– Do not overturn the battery. Acid can leak from the degassing openings.

2.36 Battery: check with a battery testing apparatus

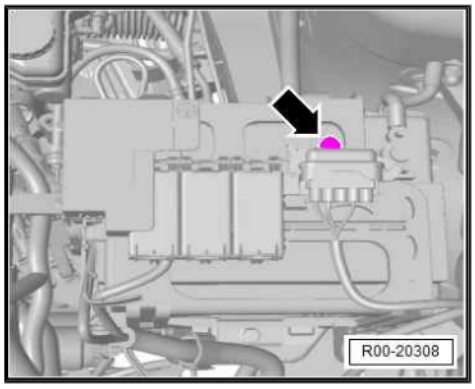
⇒ Electrical equipment; Rep. gr. 27 ; Starter, alternator, battery

Note

The vehicle must have remained turned off for at least 2 hours.

2.36.1 Checking via “magic eye” charge sight glass upon Delivery Inspection

Carry out a visual inspection on the charge indicator “inspection glass” -arrow-.



The Charge indicator “inspection glass” informs the battery charge condition.

Note

- *As the charge sight glass is installed on a single battery cell, the indication refers to this cell only. An accurate assessment of the battery condition can only be made through a test to check the battery charge capacity ⇒ Electrical equipment; Rep. gr. 27 ; Starter, alternator, battery .*
- *Especially in case of battery recharge, i.e. even when the battery has been charged while driving, bubbles may appear under the charge sight glass. They impair the colour indication in the sight glass. They distort the colour indication in the inspection window.*
- *The charge sight glass may be located at various positions on the battery.*

– Before making the visual inspection, tap lightly and carefully with a screwdriver handle on the charge sight glass -arrow- so that air bubbles do not interfere with the indication.

Thus, any air bubbles that could influence the indicator are eliminated and diluted.

The colour indication of the “magic eye” charge sight glass becomes more accurate. Three different indications may appear:

– Green → the battery is sufficiently charged.
– Black → no charge or insufficient charge; the battery must be charged (repair measure). For battery recharging procedures, see ⇒ Electrical system; Rep. gr. 27 ; Starter, generator, battery .
– Colourless or yellow → the battery must be replaced (repair measure).

2.37 Engine oil: complete the level (only for vehicles manufactured within the last 5 months)

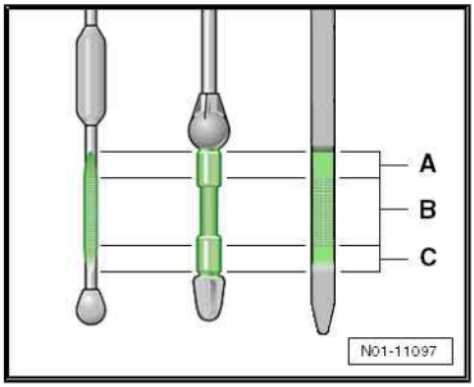
WARNING

- *Follow the rules for disposal!*

– After filling up the engine oil, wait for at least 3 minutes and then check the level.
– Pull the oil dipstick out, clean it with a clean cloth, and then push the oil dipstick in again up to the seat (striker).

– Pull the oil dipstick out again and check the oil level for the following conditions:

Area -a-	Maximum marking region. Oil cannot be replenished.
Area -b-	It is not necessary to replenish the oil.
Area -c-	Minimum marking region. Replenish the oil. It is sufficient for the oil level to be anywhere within area -b-.



Note

- *There is danger of damaging the catalytic converter when oil level is above area -a-*
- *The oil level must be between the minimum and maximum markings. Make sure that the oil level does not exceed the maximum marking.*

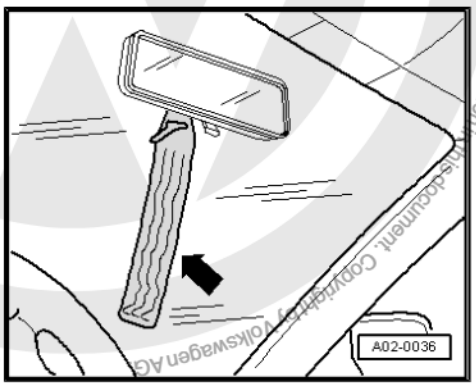
2.38 Radio: activate anti-theft code

⇒ Communication; Rep. gr. 91 ; Radio, telephone, navigation system

2.39 Transportation safety: remove the blocking locks from the front springs

2.39.1 If available

– Front suspension blocking devices are assembled in certain vehicle versions. Such vehicles can be identified through a label placed on the internal rearview mirror -arrow-.



WARNING

- *Blocking devices must be removed during vehicle delivery inspection!*

Perform the following activities:

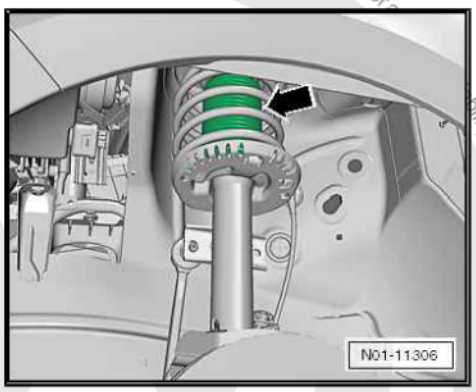
Note

It is not necessary to remove the wheels.

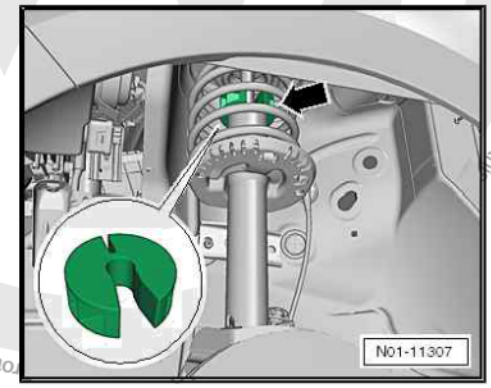
– Relieve the load form the coil springs by lifting the vehicle with the workshop lift.

– Remove safety devices (blocking devices) from the suspension pillar.

– Move the shock absorber rod protective bellows upwards.



– Remove the shock absorber rod blocking device.
– Move the shock absorber rod protection bellow downwards.

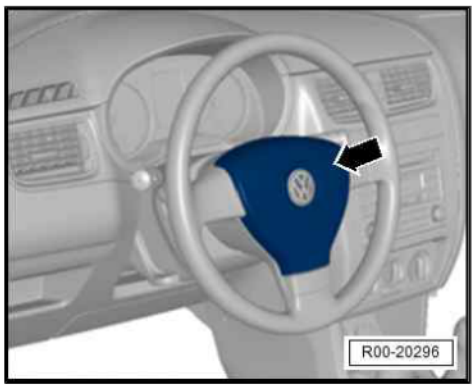


2.40 Airbag: check for external damages

2.40.1 Driver's airbag

The most significant identification of the Airbag is the “AIRBAG” -arrow- logo on the steering wheel padded surface.

– Visually check the padded surface for damages.



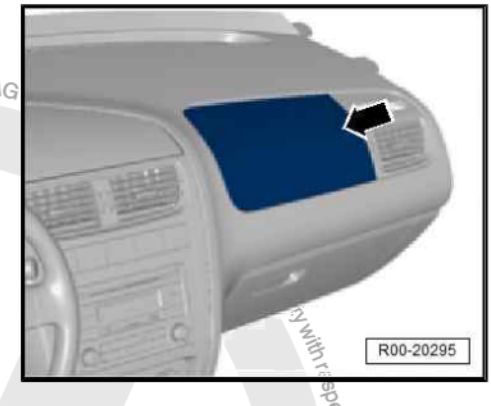
WARNING

- *The steering wheel padded plate must not be glued, coated, or undergo any type of rework. This procedure must be emphasized to clients in order to ensure proper airbag operation.*
- *The steering wheel padded plate must only be cleaned with a dry cloth or a cloth moistened with water.*

2.40.2 Front passenger's airbag

The most significant identification of the Airbag is the “AIRBAG” -arrow- inscription to the right on the instrument panel.

– Visually check the instrument panel surface for external damages.



WARNING

- *The plate that covers the passenger airbag module must never be glued, coated, or undergo any type of rework. The customer must be guided about this information to ensure the future airbag operation.*
- *The plate that covers the airbag module must only be cleaned with a dry cloth or a cloth moistened with water.*

2.41 Window washer (rear window/windscreen): refill the reservoir and regulate the ejectors' water jet

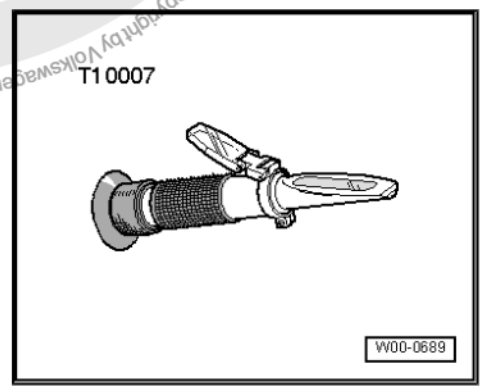
Note

If during the operating check it is verified that the wiper blades shake or make noises, you must verify the wiper blade support angle. *⇒ page 95* .

2.41.1 Replenish the reservoir level

Special tools and workshop equipment required

- Refractometer for cooling system liquid analysis - EQ 7093 (VWB) - ou - T 10007-

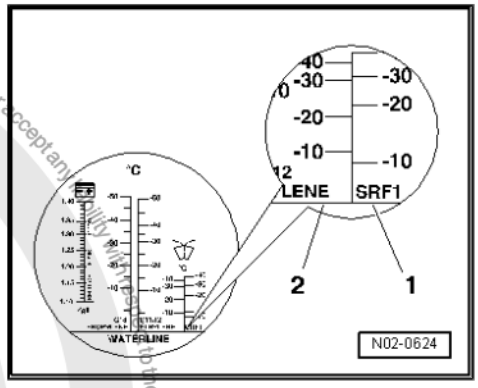


The exact value for the following checks may be read in the light/dark limit. To better see the light/dark limit, use a dropper/pipette to put a water drop on the glass. Now, the light/dark limit may be easily recognized by the “WATERLINE”.

– Check the concentration of additive for front/rear window wipers with Refractometer for cooling system liquid analysis - EQ 7093 (VWB) - ou - T 10007- (follow the instruction manual).

The refractometer scale -1- is based on the original Volkswagen product according to the table: ⇒ page 94 .

The scale -2- is based on commercially available cleaning products as well as on the mix of the commercial cleaning product with the original Volkswagen product according to table: ⇒ page 94 .



2.41.2 Windshield/rear window washer additive applications

Application	Windscreen/rear window washer additive
Arctic climate	-G 052 164 M2-
Tropical climate	-G 052 184 A2-

2.41.3 Mix ratio in arctic climate countries

Antifreeze protection up to	Windscreen/rear window washer additive	Water
-16 °C	1 part	2 parts
-30 °C	1 part	1 part
-40 °C	2 parts	1 part

2.41.4 Mix ratio in tropical countries

Antifreeze protection up to	Windscreen/rear window washer additive	Water
-	1 part	99 parts

Complete:

The windscreen washer fluid reservoir must be completely topped off.

Note

- *The original Volkswagen product Windscreen/rear window washer additive - G 052 164 M2- has cleaning properties that protect the ejectors, the reservoir and connection hoses against freezing.*
- *In warm seasons of the year, it is also possible to use original Volkswagen product Windshield/rear window washer additive - G 052 184 A2- that does not have antifreeze protection, but has cleaning properties.*
- *The antifreeze protection for the Windscreen washer should be guaranteed at approximately -15 °C (in Arctic climate countries in approximately -35 °C).*

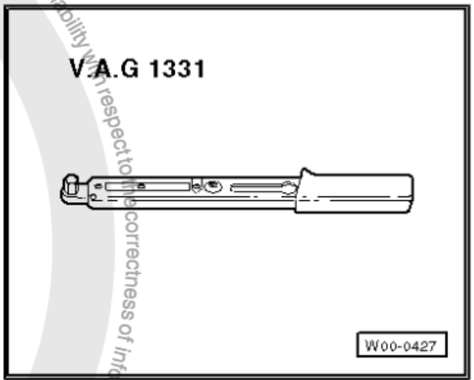
2.41.5 Windscreen washer: refill the reservoir and regulate the ejectors' water jet

Check the windscreen wiper system ⇒ Electrical equipment; Rep. gr. 92 ; Windscreen, rear window and headlight wiper and washer .

2.41.6 Rear window washer - check the ejector

⇒ Electrical equipment; Rep. gr. 92 ; Windscreen/rear window and headlight wiper and washer

2.42 Windscreen/rear window wipers: check the working order, adjust the resting position and the sweep of the wiper arms



Special tools and workshop equipment required

- ♦ Torque wrench - 5 to 50Nm (1/2” drive) - VAG 1331-

2.42.1 Windscreen wiper blades - adjust the resting position

⇒ Electrical equipment; Rep. gr. 92 ; Windscreen/rear window and headlight wiper and washer

2.42.2 Rear window washer blade: adjust resting position

⇒ Electrical equipment; Rep. gr. 92 ; Windscreen/rear window and headlight wiper and washer

2.42.3 Wiper blades: check the incidence angle

⇒ Electrical equipment; Rep. gr. 92 ; Windscreen/rear window and headlight wiper and washer

2.43 Tires (including spare tire): check conditions and pressure

Note

For driving safety purposes, install only tyres of the same type and profile version in a vehicle!

2.43.1 Check the condition (including spare wheel)

Carry out work sequence as follows:

Delivery inspection:

– Check the tread and sides for damage and, if necessary, remove foreign bodies, such as nails and pieces of glass, for example.

Note

In case of faults, please check if it is necessary to install a new tire.

Inspection service:

– Check the tread, sides and groove depth for damage and, if necessary, remove foreign bodies, such as nails and pieces of glass, for example.

– Check the tires for wearing, treads worn on only one side, porosity on the toothed sides, cuts and perforations.

Note

The faults verified must be reported to the customer.

2.43.2 Check the treads (including spare wheel)

From the front tire treads it is possible to evaluate, for example, if there is the need to check the camber and convergence:

- The existence of burrs on the tire profile may be caused by convergence failure.
- Tread wear on only one side can be mostly caused by camber fault.

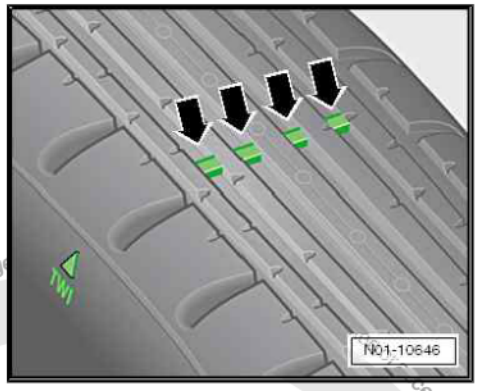
If there is such type of wearing, the cause must be determined by measuring the axle geometry (repair measure).

2.43.3 Check the tire profile depth (including spare wheel)

– Check the groove's depth

A - Minimum groove depth -at- 1.6 mm.

B - Tread wear indicators -arrows-.



It is necessary to replace the tires when tread wear reaches the indicators -arrows-, at the bottom of the grooves.

The points where tread wear indicators are found are identified by the acronym TWI (Tread Wear Indicators), distributed at every 60 degrees a on tire perimeter.

In this situation, the groove depth is approximately 1.6 mm. However, considering that a worn tire is more likely to skid on wet surfaces, we recommend replacing a tire when the groove depth reaches 3 mm.

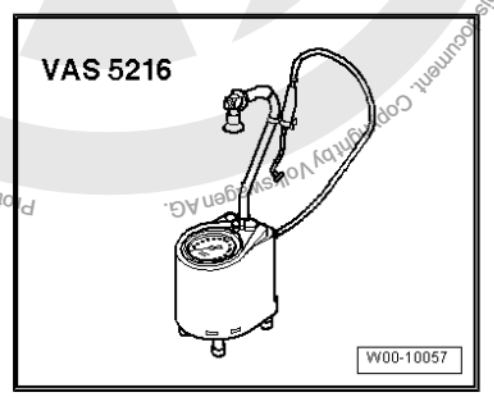
Note

- *This value may be different depending on each country's legal requirements.*
- *The minimum profile depth is reached when the wear indicator at the tread, adjusted at 1.6 mm of height, no longer displays a profile.*
- *If the profile depth is close to the legally accepted depth, the customer must be informed.*
- *The tires must also be replaced when they are cut, deformed, or display other damage.*

2.43.4 Tire pressure (including spare wheel) - check and correct if necessary

Special tools and workshop equipment required

- Tyre inflation device - VAS 5216-



Note

- *Please notice that the tire pressure values mentioned in the table are valid for cold tires. Heated tires should not be excessively deflated.*
- *Pressure values for the respective model may also be found in an adhesive label located on the inside of the fuel reservoir muzzle cover.*

Note

On the Crossfox, the spare wheel has an antitheft screw, whose socket is located in the tool bag.

2.43.5 Tire pressure table

(For all sizes of tyres assembled at factory)

Pressure values in PSI (pounds/sq-in)

Note

Spare wheel tire should be calibrated to the maximum pressure allowed for the tire your vehicle is equipped with.

Note

Values obtained at publishing date!

	half load front and rear		full load front and rear	
Engine identification letters AQZ, BJE, BNX and CCNA with manual steering				
175/65 R14 82T	31	27	33	39
Engine identification letters AQZ, BJE, BNX and CCNA				
175/65 R14 82T	29	28	31	36
185/60 R14 82H	30	29	33	37
195/55 R15 85H	27	27	28	33
Engine identification letters BAH, BJA, BPA and CCRA				
175/65 R14 82T	31	29	34	38
185/60 R14 82H	30	29	33	37
195/55 R15 85H	28	28	30	34
Engine identification letters BLH				
185/60 R14 82H	30	29	33	37
165/70 R14 81T	35	32	35	41
Engine identification letters ASY				
175/65 R14 82T	32	30	35	39
195/55 R15 85H	30	29	31	35
Engine identification letters BMD, CHFB, CHFA with manual steering				
165/70 R14 81T	35	32	35	41
Engine identification letters BMD, CHFB, CHFA				
165/70 R14 81T	29	28	32	38
185/60 R14 82T	29	28	32	38
195/55 R15 85V	28	28	30	36
Engine identification letters BKR				
165/70 R14 81T	32	29	35	41
185/60 R14 82T	32	29	35	41
195/55 R15 85V	28	28	30	36
Engine identification letters BNM				
165/70 R14 81T	33	30	36	42
185/60 R14 82T	33	30	36	42
195/55 R15 85V	29	28	32	38

	half load front and rear	full load front and rear
Spare wheel	Spare wheel tire should be calibrated to the maximum pressure allowed for the tire your vehicle is equipped with.	

Crossfox and Space Cross

Engine identification letters BKR				
205/60 R15 91V	29	32	29	38
Engine identification letters BNM				
205/60 R15 91V	29	32	29	38
Engine identification letters BAH, BJA, BPA and CCRA				
205/60 R15 91V	29	32	29	38
Spare wheel	Spare wheel tire should be calibrated to the maximum pressure allowed for the tire your vehicle is equipped with.			

Pressure values in bar.

Note

Values obtained at publishing date!

	half load front and rear		full load front and rear	
Engine identification letters AQZ, BJE, BNX and CCNA with manual steering				
175/65 R14 82T	2.1	1.9	2.3	2.7
Engine identification letters AQZ, BJE, BNX and CCNA				
175/65 R14 82T	2.0	1.9	2.1	2.5
185/60 R14 82H	2.1	2.0	2.3	2.6
195/55 R15 85H	1.9	1.9	1.9	2.3
Engine identification letters BAH, BJA, BPA and CCRA				
175/65 R14 82T	2.1	2.0	2.3	2.6
185/60 R14 82H	2.1	2.0	2.3	2.6
195/55 R15 85H	1.9	1.9	2.1	2.3
Engine identification letters BLH				
185/60 R14 82H	2.1	2.0	2.3	2.6
165/70 R14 81T	2.4	2.2	2.4	2.8
Engine identification letters ASY				
175/65 R14 82T	2.2	2.1	2.4	2.7
195/55 R15 85H	2.1	2.0	2.1	2.4
Engine identification letters BMD, CHFB, CHFA with manual steering				
165/70 R14 81T	2.4	2.2	2.4	2.8
Engine identification letters BMD, CHFB, CHFA				
165/70 R14 81T	2.0	1.9	2.2	2.6
185/60 R14 82H	2.0	1.9	2.2	2.6
195/55 R15 85V	1.9	1.9	2.1	2.5
Engine identification letters BKR				
165/70 R14 81T	2.2	2.0	2.4	2.8

	half load front and rear		full load front and rear	
185/60 R14 82H	2.2	2.0	2.4	2.8
195/55 R15 85V	1.9	1.9	2.1	2.5
Engine identification letters BNM				
165/70 R14 81T	2.3	2.1	2.5	2.9
185/60 R14 82H	2.3	2.1	2.5	2.9
195/55 R15 85V	2.0	1.9	2.2	2.6
Spare wheel	Spare wheel tire should be calibrated to the maximum pressure allowed for the tire your vehicle is equipped with.			

Crossfox and Space Cross

Engine identification letters BKR				
205/60 R15 91V	2.0	2.2	2.0	2.6
Engine identification letters BNM				
205/60 R15 91V	2.0	2.2	2.0	2.6
Engine identification letters BAH, BJA, BPA and CCRA				
205/60 R15 91V	2.0	2.2	2.0	2.6
Spare wheel	Spare wheel tire should be calibrated to the maximum pressure allowed for the tire your vehicle is equipped with.			

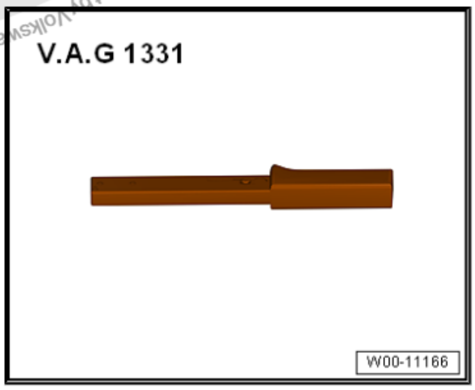
2.44 Air cleaner: Clean case and change filter element

⇒ Engine; Rep. gr. 24 ; Supply system - fuel injection

2.45 Engine oil and oil draining plug and plug sealing ring: replace

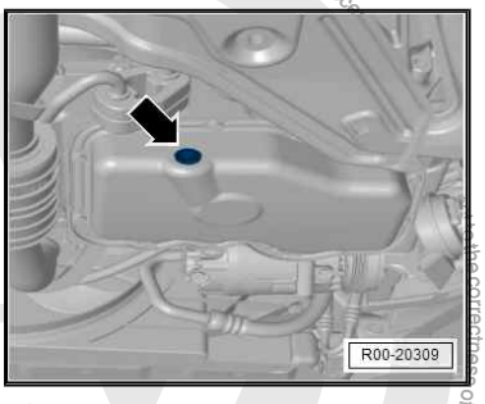
Special tools and workshop equipment required

- ♦ Torque wrench - 5 to 50 Nm (1/2” drive) - VAG 1331-



Carry out work sequence as follows:

Engine identification letters BAH, BJA, BPA and CCRA



– Remove the oil drain plug -arrow-.
– Let the engine oil drain.
– Manually install the new oil draining plug with the locking ring, and tighten to the specified torque.

Tightening torque	Nm
Oil draining plug	30

– Refill and check the oil level ⇒ "2.45.2 Filling", page 103 .

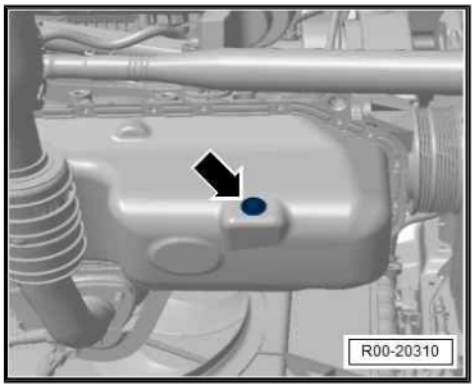
Note

- *Please note that the tightening torque must not be exceeded. A very high tightening torque may lead to damage or even leaks in the oil draining plug area.*
- *Insert the new oil draining plug with the locking ring.*

WARNING

- *Follow the rules for disposal!*

Engine identification letters AQZ, BJE, BNX, CCNA and CPBA



– Remove the oil drain plug -arrow-.
– Let the engine oil drain.
– Manually install the new oil draining plug with the locking ring, and tighten to the specified torque.

Tightening torque	Nm
Oil draining plug	30

– Refill and check the oil level ⇒ "2.45.2 Filling", page 103 .

Note

- *Please note that the tightening torque must not be exceeded. A very high tightening torque may lead to damage or even leaks in the oil draining plug area.*
- *Insert the new oil draining plug with the locking ring.*

WARNING

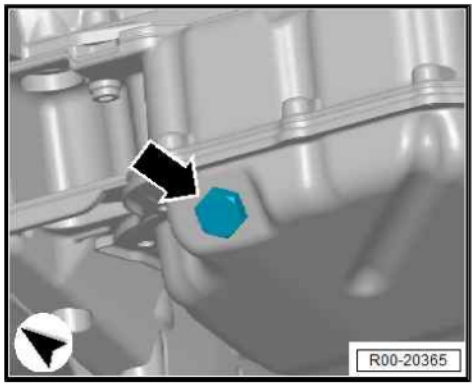
- *Follow the rules for disposal!*

Engine identification letters CSEA

Drain the engine oil during the first oil change service

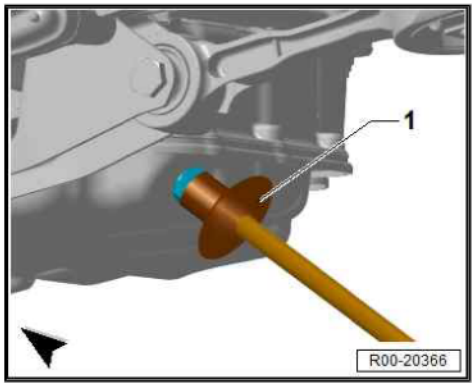
– Remove the oil drain plug -arrow-.

– In order to prevent oil from running over the tool, use the 1J0.723.528 — Roseta-1- part as a protective cover during the operation



> **WARNING**
>
> - *Using the Roseta - 1J0.723.528- is extremely important to prevent skin burns from hot oil leaking over the tool*

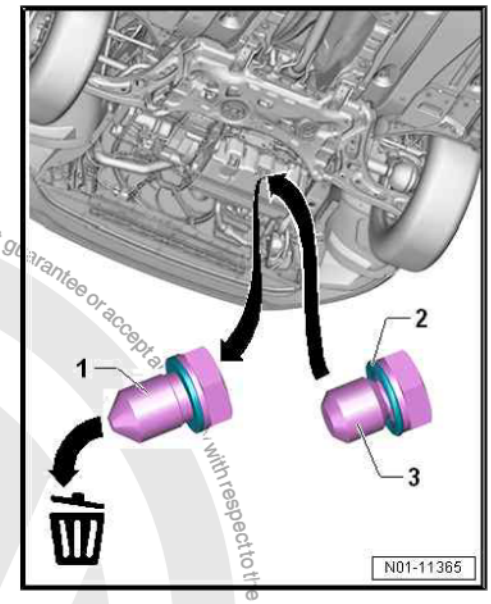
– Let the engine oil drain.



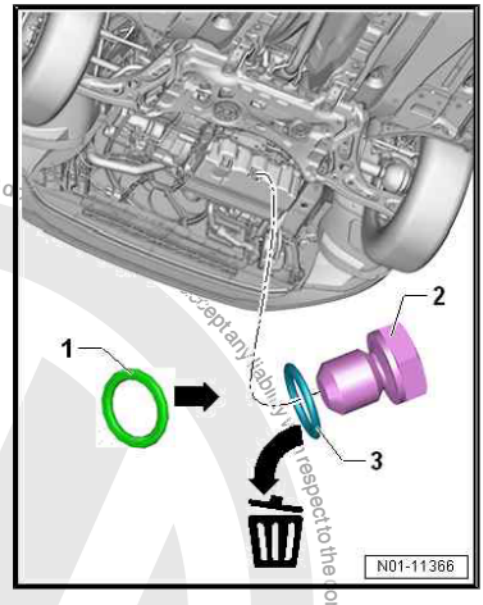
– Discard the oil draining plug -1-.

– Manually install the new oil draining plug -3- with the locking ring -2- and tighten to the specified torque.

Drain the engine oil after the first oil change service



– Remove the oil draining plug -2- and discard the locking ring -3-.



Note

The same oil draining plug is used after the first oil change service

– Let the engine oil drain.

– Manually install the oil draining plug -2- with the new locking ring -1- and tighten to the specified torque.

Tightening torque	Nm
Oil draining plug	30

– Refill and check the oil level ⇒ "2.45.2 Filling", page 103 .

Note

Please note that the tightening torque must not be exceeded. A very high tightening torque may lead to damage or even leaks in the oil draining plug area.

WARNING

- *Follow the rules for disposal!*

2.45.1 Fill the engine with oil

Based on the oil properties ⇒ "2.25.2 Oil properties", page 80 , use only the following approved engine oils:

2.45.2 Filling

WARNING

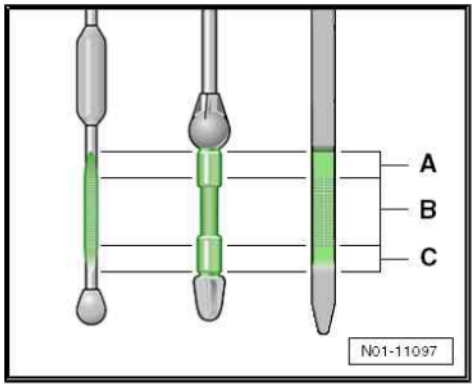
- *Follow the rules for disposal!*

– After filling up the engine oil, wait for at least 3 minutes and then check the level.

– Pull the oil dipstick out, clean it with a clean cloth, and then push the oil dipstick in again up to the seat (striker).

– Pull the oil dipstick out again and check the oil level for the following conditions:

Area -a-	Maximum marking region. Oil cannot be replenished.
Area -b-	It is not necessary to replenish the oil.
Area -c-	Minimum marking region. Replenish the oil. It is sufficient for the oil level to be anywhere within area -b-.



Note

- *There is danger of damaging the catalytic converter when oil level is above area -a-*
- *The oil level must be between the minimum and maximum markings. Make sure that the oil level does not exceed the maximum marking.*

2.46 Engine oil filter: replace

⇒ Engine; Rep. gr. 17 ; Lubrication system

WARNING

- *Follow the rules for disposal!*

2.47 Engine and engine compartment components: perform visual inspection regarding leaks and damages

The visual inspection must be carried out as follows:

– Check the engine and components in the engine compartment for leaks and damage.

– Check the cables, hoses and connections of the following systems for leaks, wearing, porosity and brittleness:

- fuel supply system.
- cooling and heating system.
- brake system.

Note

- *Make sure that all existing faults are properly eliminated during repair.*
- *In case of loss of fluid not caused by pad wearing, you must determine and eliminate the cause (repair measure).*

2.48 Dust and pollen filter: clean the body and replace air filter element (only in vehicles equipped with air conditioning)

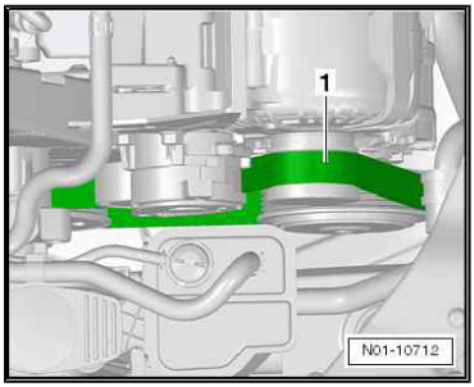
⇒ Heating, air conditioning; Rep. gr. 80 ; Heating

2.49 Poly-V belt: check conditions

Carry out work sequence as follows:

– Jack the vehicle.
– Turn engine at shocks/crankshaft pulley with a socket wrench.
– Check the Poly-V belt from below for:

- Tears in the lower section (internal fractures, section fractures).
- Layer separation (upper layer, cord strands).
- Rupture in the bottom section.
- Unthreaded cord strands.
- Worn toothed sides (material wearing, unthreaded toothed sides, toothed side hardening -glassy toothed sides-, surface tears).
- Oil and grease residues.



Note

If faults are verified, the Poly-V belt must be replaced. This will avoid failures and faults during operation. The Poly-V belt replacement is a repair measure.

2.50 Elastic Poly-V belt: replace

⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons

2.51 Coolant pump toothed belt: replace

⇒ Cooling system; Rep. gr. 19

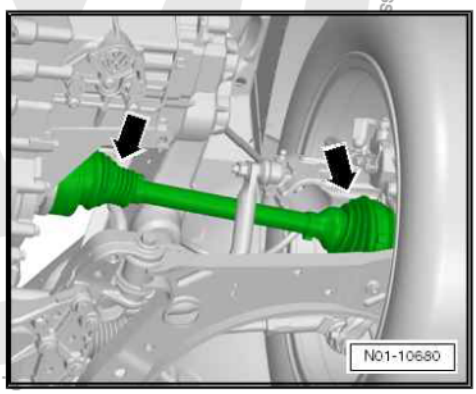
2.52 Toothed belt tensioner and camshaft toothed belt: replace

⇒ Engine; Rep. gr. 13 ; Crankshaft, pistons

2.53 Gearbox and joint bellows: check for leaks and damages

Carry out work sequence as follows:

– Check the external joint bellows -arrows- and the internal joint bellows or leaks and damage.

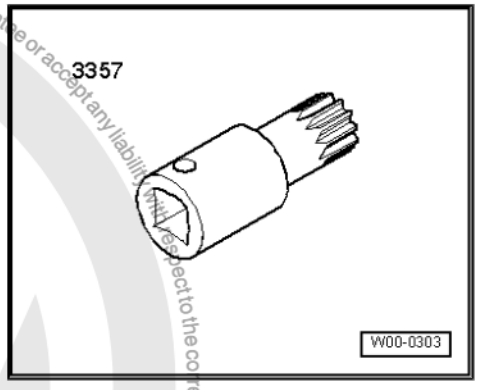


2.54 Manual gearbox: check the oil level

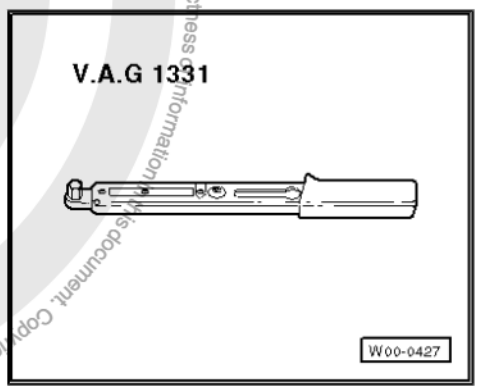
Special tools and workshop equipment required

- Multi-tooth socket SW 27 - 3357-

- or 17 mm hexagonal socket

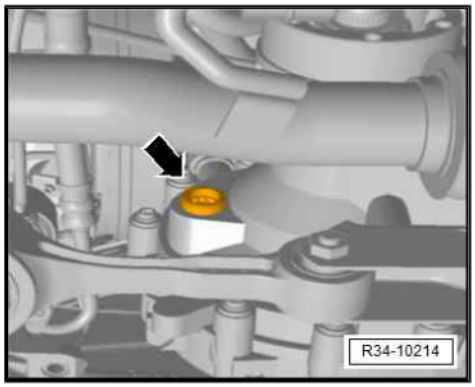


- Torque wrench - 5 to 50 Nm (1/2” drive) - VAG 1331-



2.54.1 02T 5-gear gearbox

– Remove the transmission oil filling plug -arrow-.
– The oil level is correct when the transmission is full up to the lower edge of the oil filling hole.
– Reinstall the plug and tighten it to 25 Nm.



2.55 Brake system: check visually for damages and leaks

Check the following components for damage and leaks:

- Master cylinder.
- Master cylinder (in anti-blocking system: Hydraulic unit).
- Braking force adjustment.
- Brake cylinder.

– Make sure that the brake system hoses are not twisted.
– In addition, pay attention to make sure that brake system hoses do not touch the vehicle components when the steering wheel is totally turned.
– Check the hoses for porosity and brittleness.
– Check the brake system hoses and pipes for wearing points.

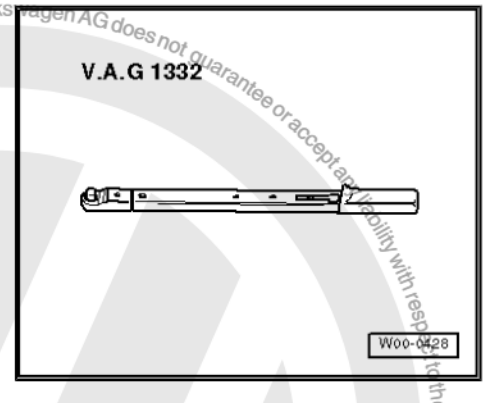
– Also, check brake system connections and fastening for correct seating, leaks and corrosion.

> ⚠ WARNING
>
> *The existing faults must be eliminated (repair measure).*

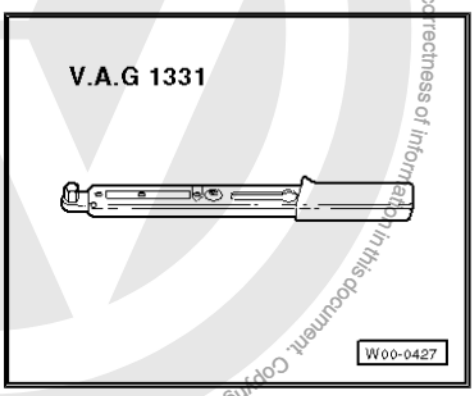
2.56 Brake discs and pads: check thickness

Special tools and workshop equipment required

♦ Torque Wrench - 40 to 200 Nm (1/2” drive) - VAG 1332-



♦ Torque wrench - 5 to 50Nm (1/2” drive) - VAG 1331-



2.56.1 Brake pads: check thickness

Carry out work sequence as follows:

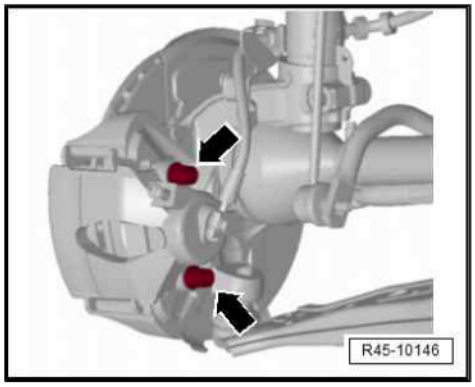
– For better evaluation of the remaining pad thickness, remove the driver side wheel (the wear is more intense than on the passenger side).

– Remove the hub cap/super hub cap.

The hook for removing the hub cap is in the tool kit.

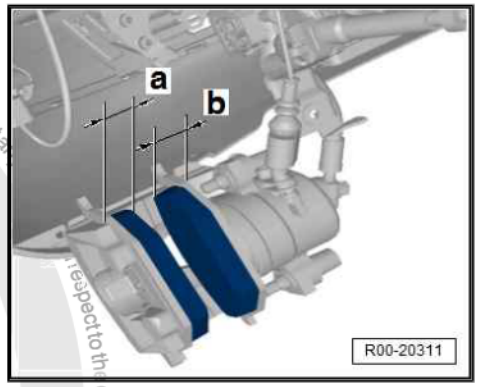
– Loosen the wheel fastening screws and remove the wheel.

– Loosen the two screws -arrows- and remove the brake cylinder.



> **WARNING**
>
> *Remove the brake cylinder and fasten it with wire so that its weight does not stress and damage the flexible brake pipe.*

– Measure the internal and external pad thickness.
– External pad thickness including back plate -a-.
– Internal pad thickness including back plate -b-.
– Wear limit: 7 mm with the rear plate.

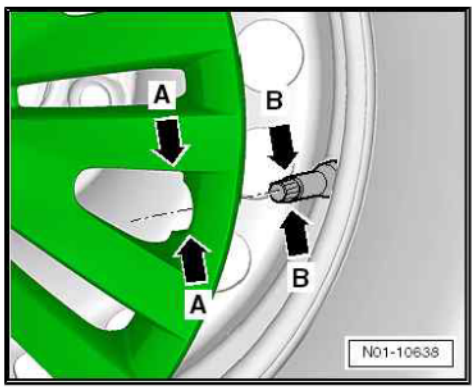


Note

- *For a pad thickness of 7 mm (including the rear plate), the brake pads have reached their wear limit and must be replaced (repair measure). The customer must be informed*
- *If the disc brake pads are replaced, you must also check the brake disks for wear! Brake disc check and eventual replacement is a repair measure.*

– Installation is performed in the reverse process to the removal.
– The larger pad is installed in the outer side! (FS II brake system).
– Apply a 25 Nm torque to the fastening screws for the brake cylinder (FS II Brake system).
– Apply a 30 Nm torque to the fastening screws for the brake cylinder (FS III Brake system).
– When installing the wheel, tighten the screws in the indicated position.
– Install the wheel fastening screws and tighten them in a cross pattern to 120 Nm.
– After completing the tasks, keep the hub cap/super hub cap removal hook with the tools.

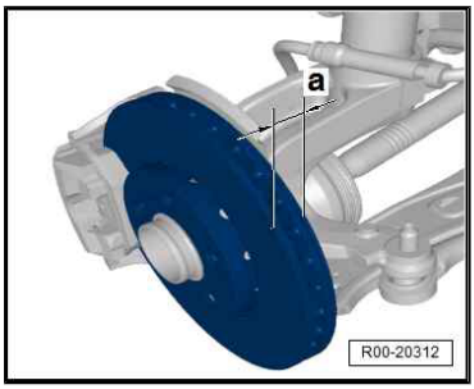
– Install the super hub cap so that the tire inflation valve -B- passes through the opening -A- for this purpose.



2.56.2 Brake discs: check thickness

Check the following:

- Brake disc thickness: 18 mm for FSII and 22 mm for FSIII-a-.
- Wear limit: 16 mm for FSII and 19 mm for FSIII.



Note

Always replace both discs from the same axle.

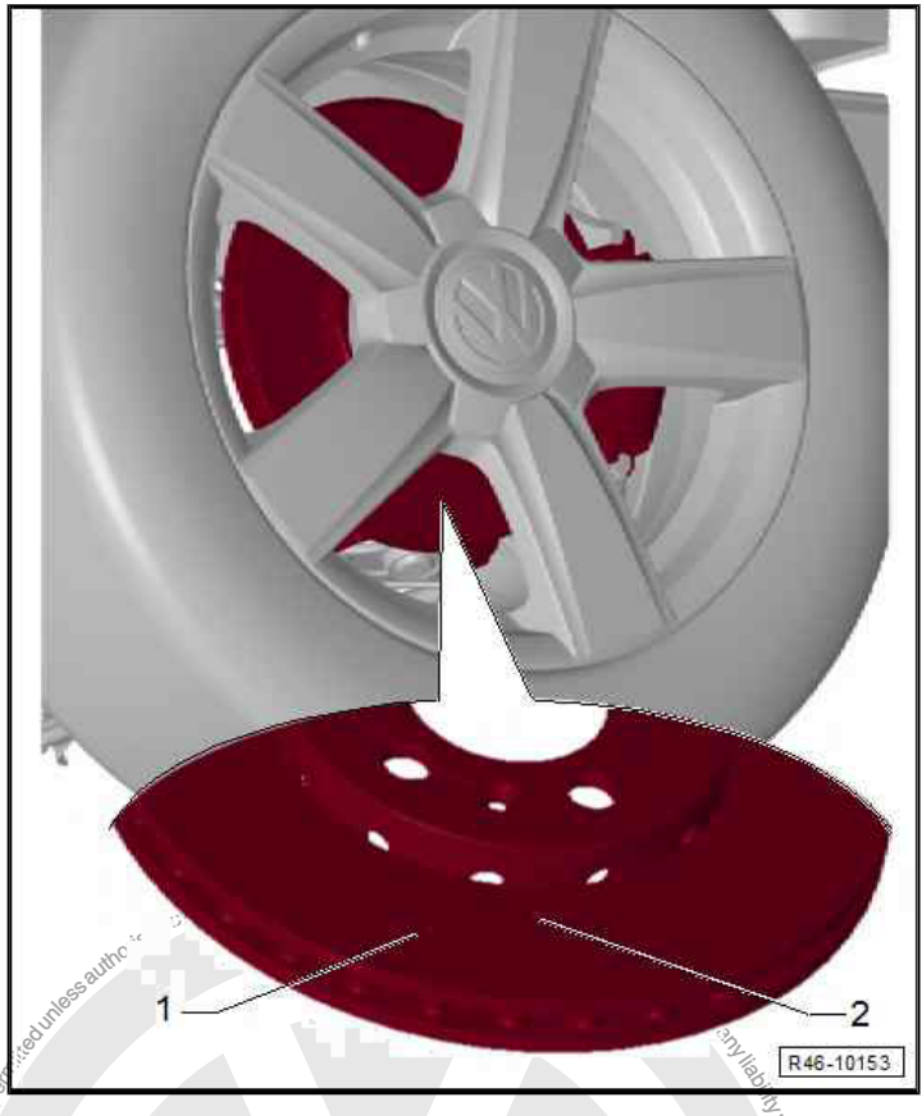
2.56.3 Brake disc with visual check - check

Note

- *The wear indicators on the front brake discs (visual check) indicate when the brake discs must be replaced. This check is made by using the marks found on the contact surface of the brake discs.*
- *Always check both discs on the same axle and, if necessary, replace them.*

Vehicles with light-alloy wheels

Position the wheel so that the brake disc wear indicators (visual check) can be visualized.



- Wear indicator -1- is located on the centre of the brake disc contact area.
- Wear indicator -2- is located close to the inner edge of the brake disc.

Note

- *If the front brake disc wear indicator markings (visual check) cannot be visualized due to wheel design, the wheels must be removed.*
- *If the front wheels must be removed to check the brake discs, after reinstalling them, tighten the wheel bolts to 120 Nm.*

Conditions for front brake disc wear checking:

1 - Wear indicators -1- and -2- are visible:

The brake discs need not be replaced.

2 - Only wear indicator -2- is visible:

The brake discs do not require replacement, but be aware that the next replacement is close.

3 - No brake disc wear indicator is visible.

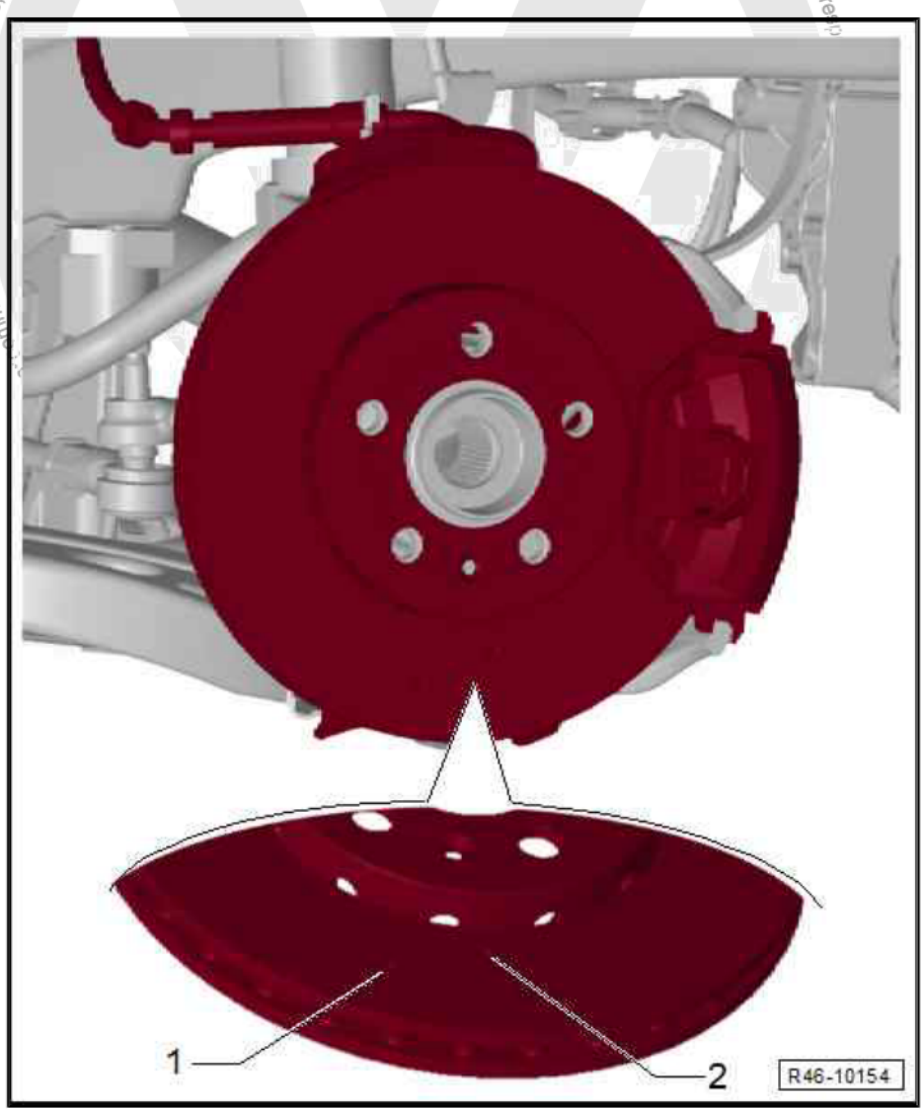
Replace the brake discs.

Remove and install the front brake discs.

Vehicles with steel wheel

Note

- *In order to see the brake disc wear indicators (visual check) on vehicles with steel wheels, the front wheels must be removed.*
- *After checking the brake discs, install the wheels and tighten fastening screws to 120 Nm.*



- Wear indicator -1- is located on the centre of the brake disc contact area.
- Wear indicator -2- is located close to the inner edge of the brake disc.

Conditions for front brake disc wear checking:

1 - Wear indicators -1- and -2- are visible:

The brake discs need not be replaced.

2 - Only wear indicator -2- is visible:

The brake discs do not require replacement, but be aware that the replacement is close.

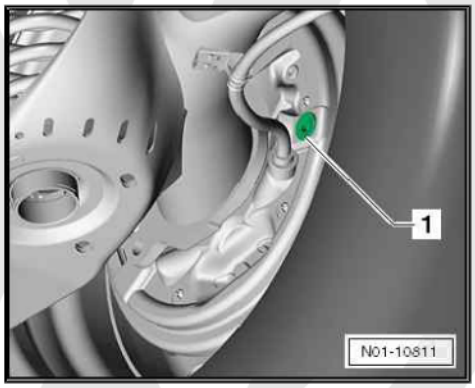
3 - No brake disc wear indicator is visible.

Replace the brake discs.

Remove and install the front brake discs.

2.56.4 Rear wheel brake (drum brake): check

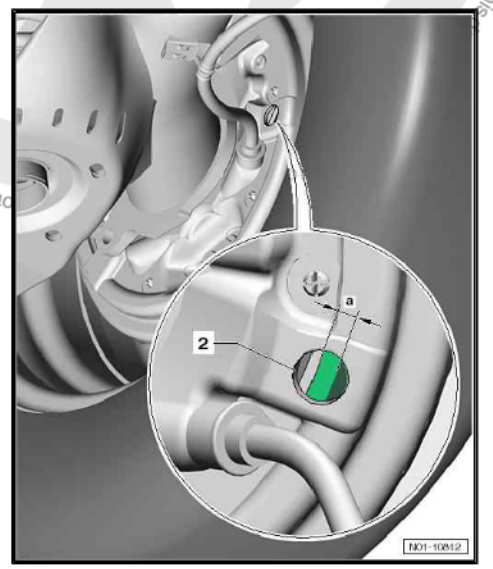
– Remove the plug -1-



– Using a flashlight, check the drum lock thickness -a- without the support plate, looking through the verification opening -2-.

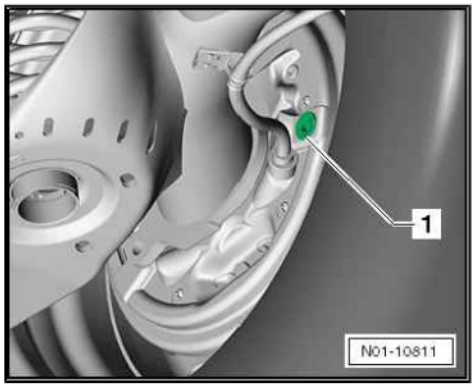
Wear measure: 2.5 mm (lining thickness only)

At a pad thickness of 2,5 mm (including back plate and friction material), the brake pads have reached their wear limit and must be replaced (repair measure). The customer must be informed!



– A better check of drum brake lining thicknesses and eventual contaminations is only possible when the repair involves drum removal ⇒ Brake system; Rep. gr. 46 ; Brakes - Mechanical systems .

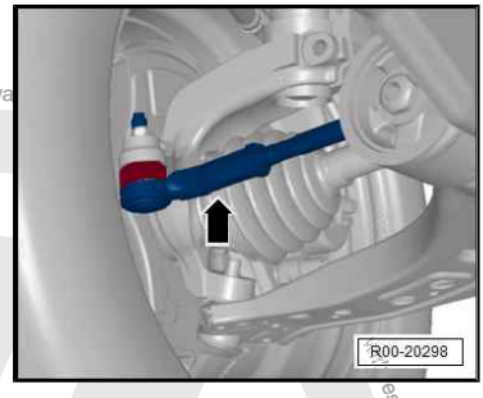
– After checking, place the plug -1- back on.



2.57 Steering wheel bars: check the swivel joint gaps, mounting and state of the protection bellows.

Carry out work sequence as follows:

- With the vehicle lifted (with wheels hanging freely), check the bars' side movements for clearances -arrow-.
- Check tightness.
- Check the sealing bellows for damage and proper adjustment.



2.58 Timing belt and tensioning pulley: replace

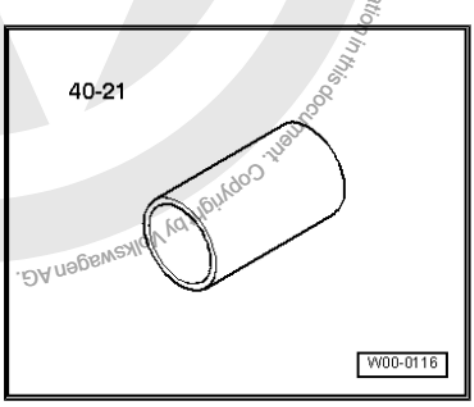
⇒ Engine; Rep. gr. 15 ; Cylinder head, valve control mechanism

2.59 Wheel bearing cones: adjust

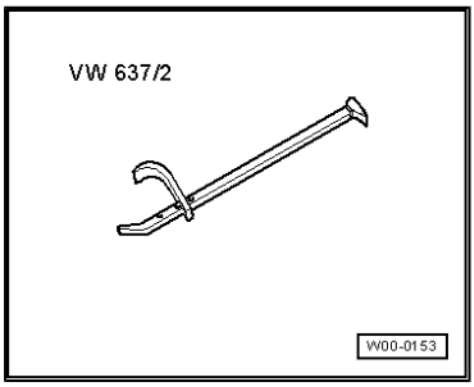
Only for vehicles without ABS equipped with engines: AQZ, BNX, BAH, BPA from 07/01/2007

Special tools and workshop equipment required

♦ Support tube - 40-21-



♦ Hub nut protector puller - VW 637/2- .



Rear wheel hub

1 - Wheel hub protector, must be replaced after removal.

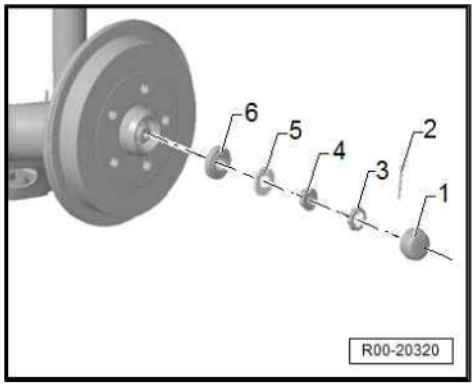
2 - Cotter pin, must be replaced after removal.

3 - Ring gear.

4 - Hexagonal nut

5 - Safety plate

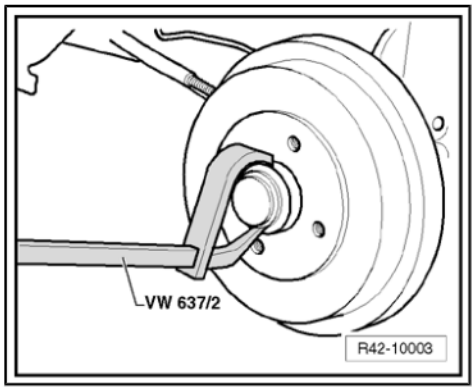
6 - Bearing cones



Removal of the wheel is only necessary for vehicles with light-alloy rims.

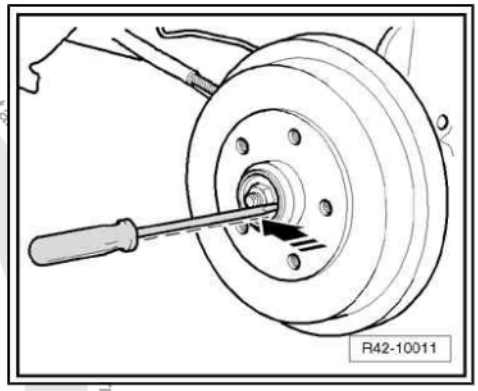
– Remove the wheel hub protector -1- with the Hub nut protector puller - VW 637/2- .

– Remove the cotter pin -2- and the sprocket -3-.

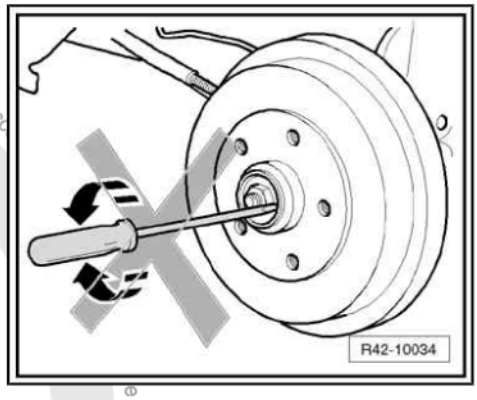


> **Caution**
>
> *The washer must present a radial movement exactly in accordance with the following procedure.*

– Release or tighten nut by applying less or more pressure on the washer -arrow-, and simultaneously check its radial movement with light pressure of your index applied on a screwdriver.



– Never turn -arrows- or leverage the screwdriver.



WARNING

The screwdriver should touch only the washer and never the outer roller bearing of the wheel.

Never rotate or leverage with the screwdriver, assuring that the screwdriver does not touch the brake drum hub on no account.

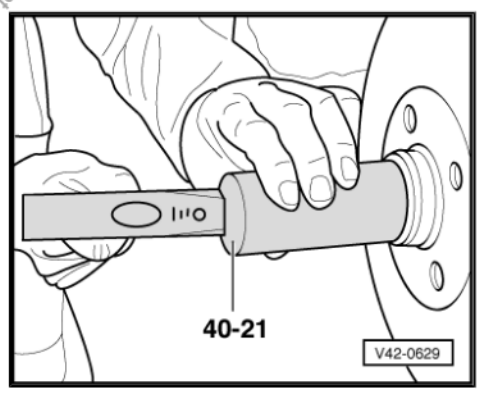
If the notes above are not strictly followed, the adjustment of bearing end play will be jeopardized (it can lead to noises and breakage of bearings).

– Install the ring gear in order to allow assembling the cotter pin.
– Check the regulation again.
– The washer must move radially with a slight pressure of your index applied on a screwdriver.

Note

After removed, the cotter pin must be replaced.

– Install wheel hub protector with the Support tube - 40-21-

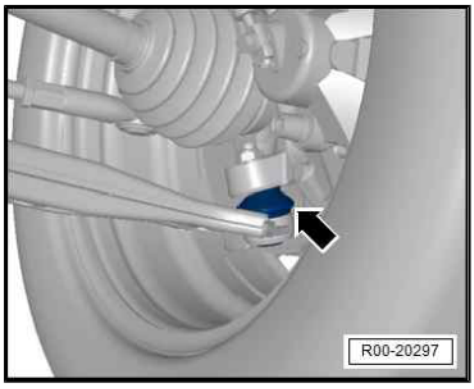


Note

The wheel hub cover must be replaced with every removal.

2.60 Axle articulations: check the sealing bellows for damage and leaks.

– Check the sealing bellows in suspension arm articulations -arrow- for damage and leaks.



2.61 Cooling system: check the level and top off if necessary.

Note

All engines are supplied with radiator antifreeze additive and anti-corrosion G 13 - according to TL VW 774 J (lilac colour). Make sure that only G 12 is replenished.

WARNING

The coolant additive G 13 cannot be mixed with other additives. When they are mixed, severe damage is caused to the engine. If a mixture is detected (brown colour), the coolant must be immediately replaced (repair measure).

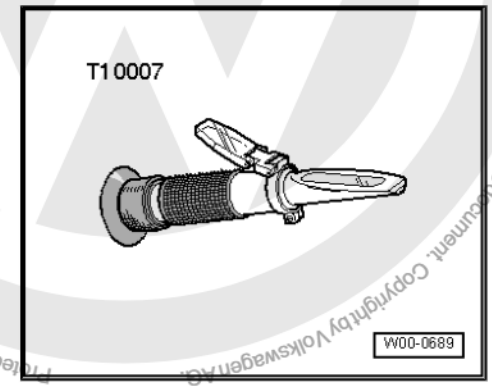
Note

- *The G 13 as permanent filling (does not require replacement) is adequate for cast iron and aluminium engines, and protects the engine against freezing, damage from corrosion, lime-stone build-up and overheating.*
- *The G 13 raises the boiling point to 135°C and provides better heat dissipation.*
- *The coolant ratio must be at least 40 % (antifreeze protection to - 25° C) and must not exceed 60 % (antifreeze protection to - 40° C), otherwise the antifreeze protection is reduced and the effectiveness of the cooling action diminished.*

2.61.1 Check antifreeze protection and replenish with coolant, if necessary

Special tools and workshop equipment required

- Refractometer for cooling system liquid analysis - T 10007-



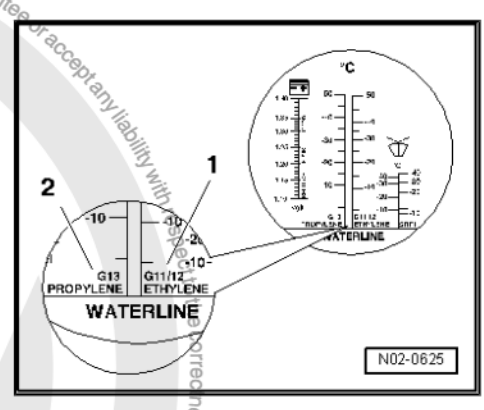
Note

The exact value for the following checks may be read in the light/dark limit. To better see the light/dark limit, use a dropper/pipette to put a water drop on the glass. Now the light/dark limit may be easily recognized by the "WATERLINE".

– Check the concentration of antifreeze additive with the Refractometer for cooling system fluid analysis - T 10007- (follow the instruction manual).

The scale -1- of the refractometer is related to coolant additives - G 12- and -G 13-.

The scale -2- is related to the cooling additive -G 13-.



Note

- *The antifreeze protection must be guaranteed in approximately -25 °C (in Arctic climate countries in approximately -35 °C).*
- *Due to climatic reasons, a higher antifreeze protection is necessary, so the percentage of G 13 may be increased, but only up to 60% (antifreeze protection to approximately - 40° F), because the antifreeze protection can be reduced again and, additionally, the cooling action is worsened.*

– When the antifreeze protection is too weak, drain the difference volume mentioned in the antifreeze protection table ⇒ page 117 and replace with the cooling additive -G 13- according to TL VW 774 J.

WARNING

- *Follow the rules for disposal!*

2.61.2 Antifreeze table

Antifreeze protection up to °C		Difference quantity in litres[7]
Actual value[5]	Nominal value[6]	
0	-25	3.0
	-35	3.5
-5	-25	2.5
	-35	3.5
-10	-25	2.0
	-35	3.0
-15	-25	1.5
	-35	2.5
-20	-25	1.0
	-35	2.5
-25	-35	2.0
-30	-35	1.0
-35	-40	0.5

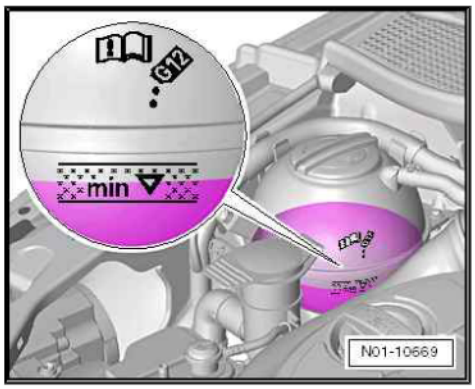
5) Actual value: the result achieved when measuring the concentration of coolant on the measured vehicle.

6) Nominal value: is the value applied to the place where the vehicle is being used. Example In Brazil the nominal value is -25°C and in arctic countries the value is -35°C.

7) Difference in litre: amount removed from the cooling system and replenished in the same quantity only with additive.

– After the test run, you must check the antifreeze additive concentration in the cooling system again.

2.61.3 Check the coolant level and, if necessary, add more coolant



– Check the coolant level in the reservoir with the cold engine.

♦ Delivery inspection: With the cold engine, the coolant level must be in the middle area between the maximum and minimum reservoir markings. If it is above the middle area, remove the excess until it reaches the level in the middle area between the maximum and minimum reservoir markings. With the heated engine, the coolant may reach the maximum reservoir marking.

♦ Inspection service: With the cold engine, the coolant level can be between the reservoir maximum marking and middle area. If it is above the middle area, remove the excess until it reaches the level in the middle area between the maximum and minimum reservoir markings. With the heated engine, the coolant may reach the maximum reservoir marking.

– If during the inspection service the coolant level is below the minimum level marking, it is necessary to replenish the system according to the specified mixture ratio until the middle area between the maximum and minimum reservoir markings.

Note

In case of loss of fluid not caused by consumption, you must determine and eliminate the cause (repair measure).

2.61.4 Mixture ratio

Antifreeze protection up to	Coolant additive	Water
-25 °C	approx. 40%	approx. 60 %
-35 °C	approx. 50 %	approx. 50 %
-40 °C	approx. 60 %	approx. 40%

Note

♦ *The coolant additive -G 13- prevents damage from corrosion and freezing, limestone build-up and also increases the boiling point. For these reasons, the cooling system must always be replenished with antifreeze and anti-corrosion agent throughout the year.*

♦ *Specially in tropical countries, the coolant ensures the engine operation by increasing the boiling point under high engine charges.*

♦ *The concentration of coolant cannot be diluted in water, even during hot seasons or in hot countries. The cooling additive percentage must be at least 40%.*

2.62 Spark plugs: replace

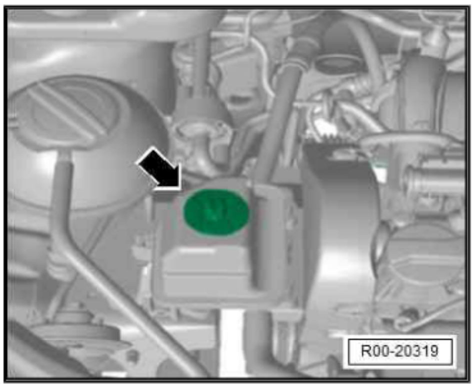
⇒ Ignition system; Rep. gr. 28

2.63 Power steering: check the oil level.

Carry out work sequence as follows:

– The engine must be turned off and the front wheels, aligned.

– Remove the cover with a screwdriver -arrow-.



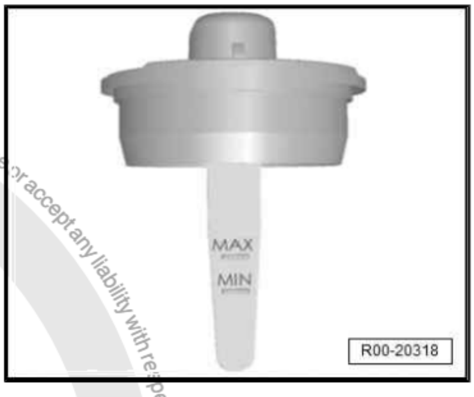
– Clean the oil dipstick with a clean cloth.

– Manually install the cover and remove it again.

Note

The oil level inspection must be considered only in the second measurement.

– Check oil level: the oil level must be between the -MIN- and -MAX- marks.



Note

- *If the oil level is above the -MAX- mark, you must drain the oil.*
- *If the oil level is below the -MIN- mark, you must check the hydraulic system for possible leaks (repair measure), it is not enough to just replenish with oil.*
- *Replenish only with oil - 325 029 901 1- .*

– Install the cover with a screwdriver.

2.64 Electric power steering: check oil level (European market only)

Carry out work sequence as follows:

– The engine must be turned off and the front wheels, aligned.

– Remove the battery⇒ Electric system; Rep. gr. 27 ; Battery A - disconnect and connect to access the reservoir

– Remove the cover.

– Clean the oil dipstick with a clean cloth.

– Manually install the cover and remove it again.

Note

The oil level inspection must be considered only in the second measurement.

– Check oil level: the oil level must be between the -MIN- and -MAX- marks.

– Install the cover.

2.65 Dust and pollen filter: replace the air filter element

The filter is located in the ventilation box to the right of the dashboard, below the glove compartment.

⇒ Heating, air conditioning; Rep. gr. 80 ; Heating

2.66 Cold start reservoir filter: replace

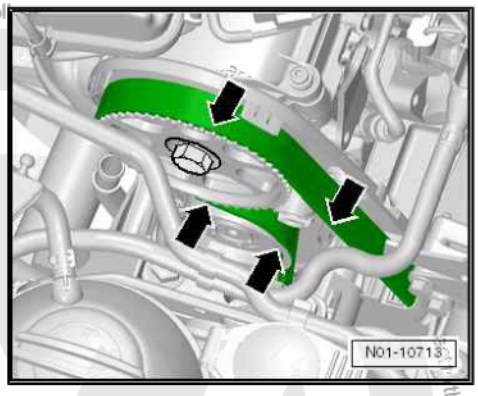
⇒ Supply system - reservoir, fuel pump; Rep. gr. 20

2.67 Timing belt: check conditions and tension

2.67.1 Engine identification letters AQZ, BJE, BNX, BAH, BJA, BPA, CCNA, CCRA

– Remove the mechanical distribution top cover.
– Check the timing belt condition for:

♦ Tears, section fractures.
♦ Layer separation (timing belt body, cord strands).
♦ Fracture in the timing belt body.
♦ Unthreaded cord strands.
♦ Surface tears (plastic coating).
♦ Oil and grease residues.



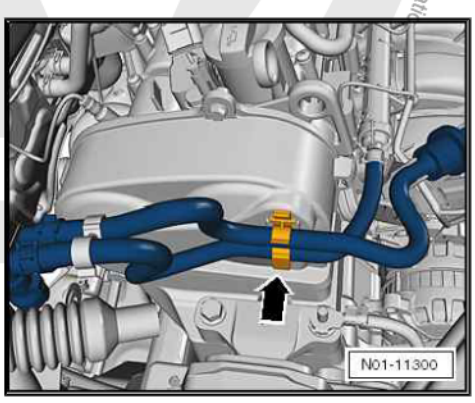
Note

If there are faults, you must replace the timing belt. This will avoid failures and faults during operation.

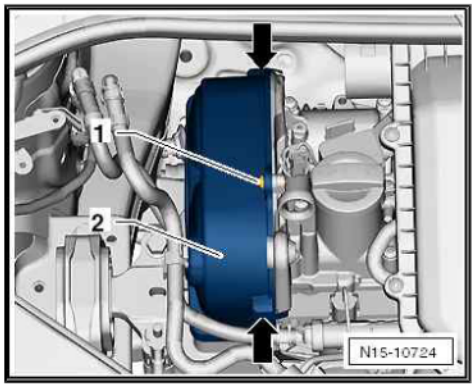
2.67.2 Engine identification letters CSEA

Remove the upper toothed belt cover and check the toothed belt:

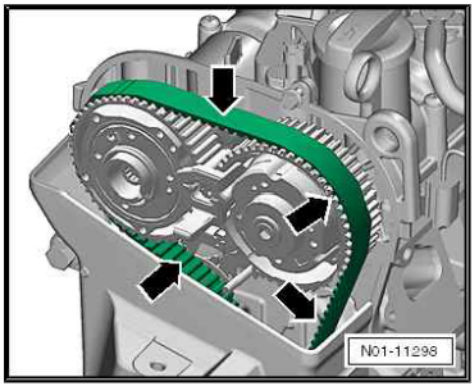
– Remove the air filter housing
– Loosen the cable guide -arrow- and move the hoses away.
– Release the clamps -arrows- and .



– Remove the fastening screw -1- and remove the cover -2-.



– Check the timing belt condition for:
- ♦ Tears, section fractures.
- ♦ Layer separation (timing belt body, cord strands).
- ♦ Fracture in the timing belt body.
- ♦ Unthreaded cord strands.
- ♦ Surface tears (plastic coating).
- ♦ Oil and grease residues.

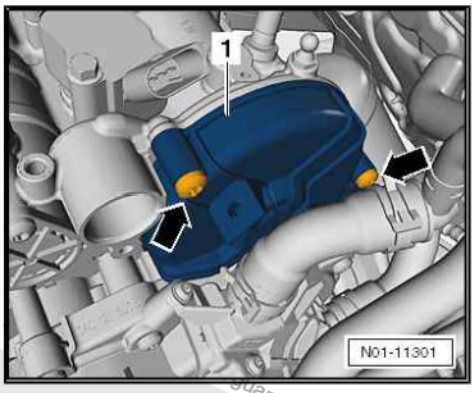


2.68 Coolant pump toothed belt: check

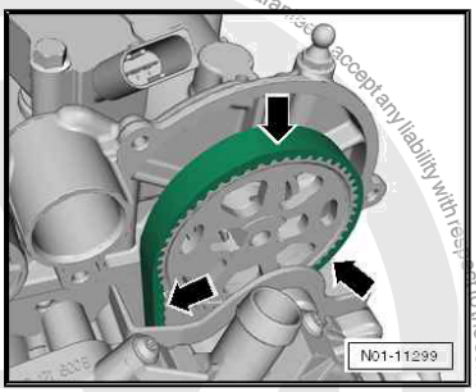
2.68.1 Check the toothed belt condition

Remove the toothed belt cover and check the toothed belt:

– Remove the air filter housing
– Remove the securing bolts -arrows-.
– Loosen the cable guide from the cover.
– Remove the cover -1-.



– Check the timing belt condition for:
- ♦ Tears, section fractures.
- ♦ Layer separation (timing belt body, cord strands).
- ♦ Fracture in the timing belt body.
- ♦ Unthreaded cord strands.
- ♦ Surface tears (plastic coating).
- ♦ Oil and grease residues.

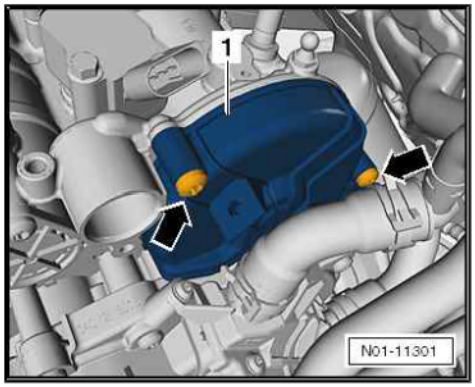


Note

Faulty toothed belts must mandatorily be replaced. This prevents failures or improper operation. The toothed belt replacement is a repair measure.

Install the toothed belt cover:

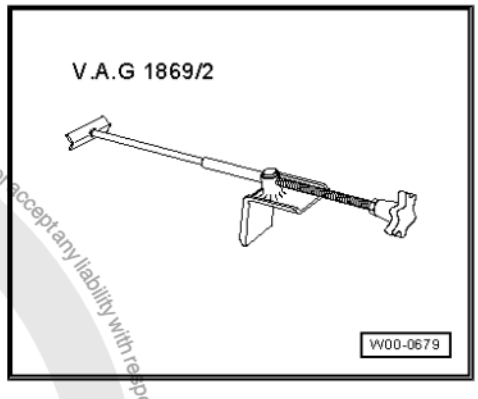
– Install the cover -1-.
– Tighten the fastening screws -arrows-at 8 Nm.
– Tighten the cover cable guide.
– Install the air filter case



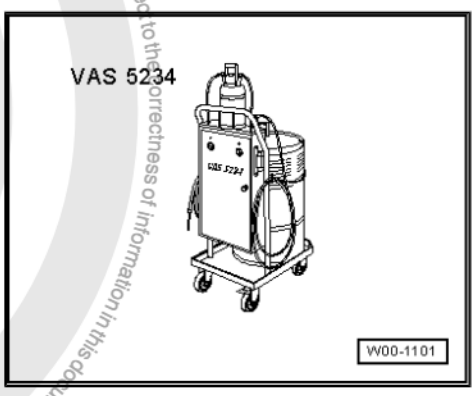
2.69 Brake fluid: replace

Special tools and workshop equipment required

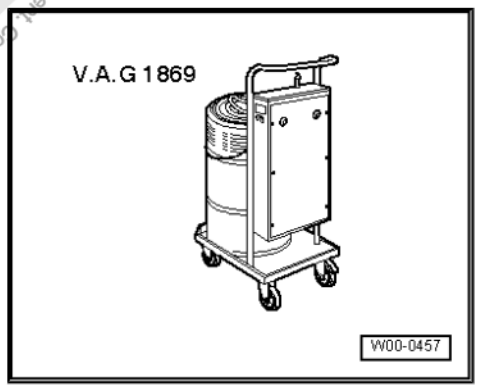
♦ Brake pedal pressing device - VAG 1869/2-



♦ Brake filler and bleeder - VAS 5234-



♦ Brake bleeding device - VAG 1869-



♦ Brake bleeding device - V.A.G 1869- with Adapter - V.A.G 1869/4-

Always use new brake fluid corresponding to the American US FMVSS 116 DOT 4 standard)

Authorized brake fluid specifications in vehicles from model until year 2005:

- Brake fluid corresponds to the USA rule FMVSS 116 DOT 4 (brake fluid used up to the date)
- Brake fluid corresponds to the VW rule, VW 501 14 (new brake fluid).

Authorized brake fluid specification in vehicles from model after year 2006:

- Brake fluid corresponds to the VW rule, VW 501 14 (new brake fluid).

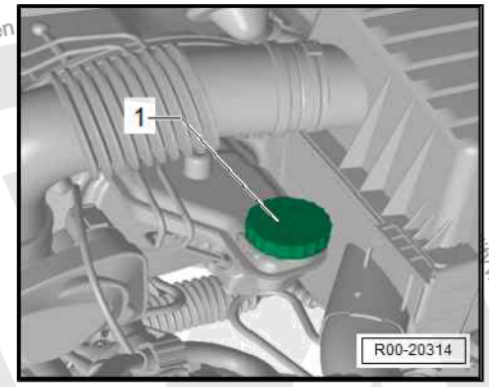
WARNING

- *Do not let the brake fluid contact fluids containing mineral oils (oil, gasoline, cleaning materials). Mineral oils damage the sealing and the brake system hoses.*
- *The brake fluid is toxic. Due to its acidic properties it should not come into contact with painted surfaces.*
- *The brake fluid is hygroscopic, that is, it absorbs the local air humidity and, for this reason, it is stored in airtight packages.*
- *Wash off any brake fluid spillage with plenty of water.*
- *Follow the rules for disposal!*

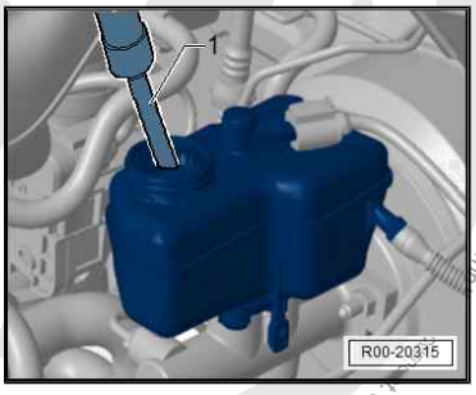
Carry out the following work sequence:

Observe the work instructions for Brake filler and bleeder - VAS 5234- and Brake bleeding device - VAG 1869- .

– Remove the cover -1- from the brake fluid reservoir.



– Aspirate with a hose from the Brake filler and bleeder - VAS 5234- -1-, or Brake bleeding device - VAG 1869- or with a filtered aspiration flask, removing as much brake fluid as possible.

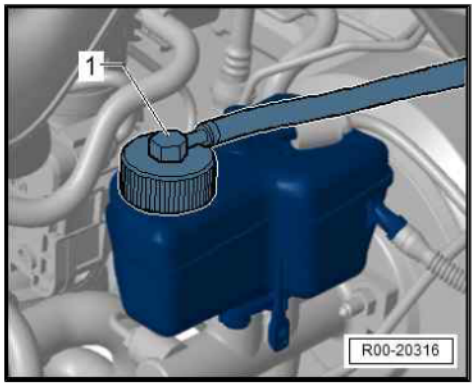


Note

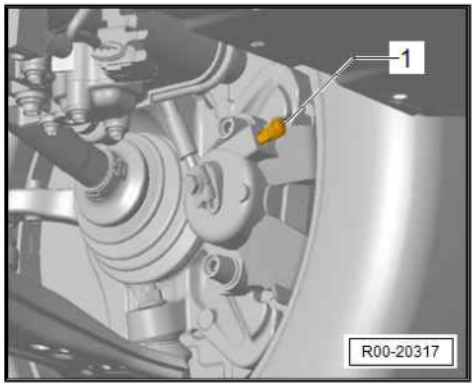
Do not reuse the (used) aspired brake fluid.

– Install the Brake pedal's tensioning element - VAG 1869/2- between the driver's seat and the brake pedal, by pressing it.

– Connect the adapter -1- to the brake fluid reservoir.
– Connect the hose from the Brake filler and bleeder - VAS 5234- or the Brake bleeding device - VAG 1869- to the adapter.



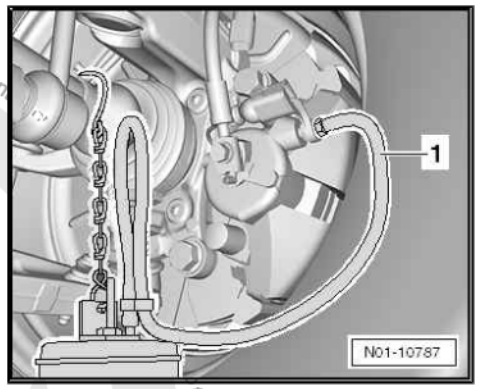
– Remove the protection covers in the bleeding screws.



– Position the venting hose -1- of the draining bottle in the rear section of the bleeding screw, loosen the bleeding screw and drain a corresponding quantity of brake fluid (see table below).
– Tighten the drain plug.

For vehicles with steering wheel to the left, start bleeding in the right rear wheel; with the steering wheel to the right, start bleeding in the left rear wheel, because it is farther from the brake cylinder.

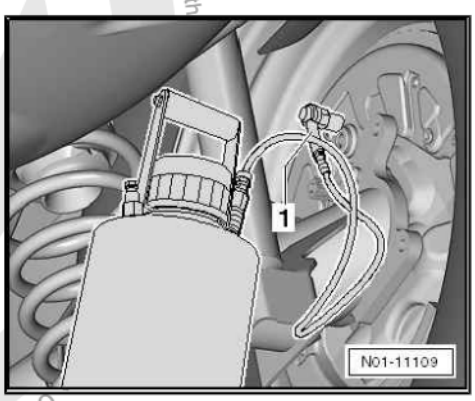
– Repeat the work procedure on the other rear side of the vehicle.



– Position the venting hose -1- of the draining bottle in the rear section of the bleeding screw, loosen the bleeding screw and drain a corresponding quantity of brake fluid (see table below).
– Tighten the drain plug.

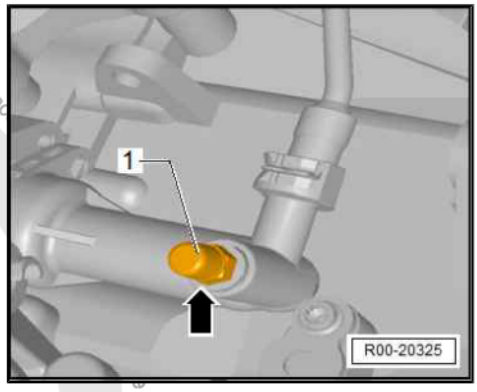
For vehicles with steering wheel to the left, start bleeding in the right rear wheel; with the steering wheel to the right, start bleeding in the left rear wheel.

– Repeat the work procedure on the other rear side of the vehicle.



Vehicles with 5-gear mechanical gearbox.

– Remove the protection cover from the clutch drive piston bleeder screw.



- Connect the hose of the -VAG 1793- -arrow- in the clutch drive piston -1-, release the bleeding screw and bleed approximately 0.1 litre.
- Tighten the drain plug.
- Activate the clutch pedal several times.

Sequence Wheel brake cylinder brake shoes	Amount of brake fluid that must be drained from the wheel brake cylinders, that is, from the brake fittings:
right rear	0.25 liter.
left rear	0.25 liter.
right front	0.25 liter.
left front	0.25 liter.

Total quantity: 1 litre [8)]

8) of brake fluid drained from the brake fluid reservoir and quantity changed in the clutch hydraulic drive.

- Place the protection covers in the bleeding screws.
- Change the position of the passage lever on the Brake filler and bleeder - VAS 5234- or Brake bleeding device - VAG 1869- to position -B- (see operating instructions).
- Remove the passage hose from the adapter.
- Remove the brake fluid reservoir adapter.
- Install the brake fluid reservoir cap.
- Remove the Brake pedal's tensioning element - VAG 1869/2- between the driver's seat and the brake pedal, by pressing it.
- Check the brake pedal's pressure and its gap. Max. gap 1/3 of the pedal travel.

> ⚠ WARNING
>
> *Do not forget to always replenish the brake fluid in the reservoir.*
>
> *Never allow the fluid to reach the minimum level so to prevent air for entering in the circuit.*
>
> *Do not reuse the aspirated (used) brake fluid.*

2.70 Brake system: check the level and top off if necessary

Use only new, original VW brake fluid.

WARNING

- *Do not let the brake fluid contact fluids containing mineral oils (oil, petrol, cleaning products). Mineral oils damage the brake system seals and hoses.*
- *The brake fluid is toxic. Additionally, due to its corrosive effect, it must not come into contact with painted surfaces.*
- *The brake fluid is hygroscopic, that is, it absorbs the local air humidity and, for this reason, it is stored in airtight packages.*
- *Wash off any brake fluid spillage with plenty of water.*
- *Follow the rules for disposal!*

Please note the following:

Delivery inspection:

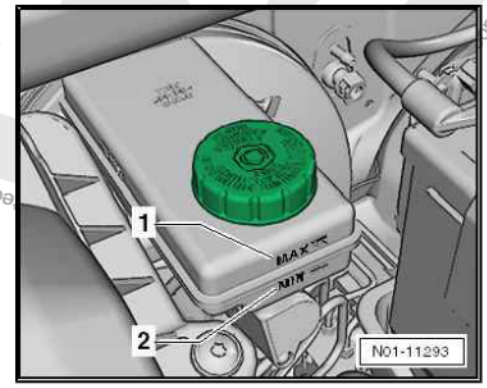
In the delivery inspection, the fluid level must be at the maximum marking-1-.

Note

In order to prevent the brake fluid from overflowing, the maximum marking must not be exceeded.

Inspection service:

- The fluid level must always be assessed, based on the brake pad wear. With the vehicle in operation, the fluid level lowers due to wear and the automatic seating of the brake pads.
- With the fluid level at the minimum marking -2- and slightly above, it becomes necessary to replenish the fluid when the brake pad wear limit has almost been reached.
- If the pads are new, or far from their wear limit, the fluid level must be within the minimum and maximum markings.
- If the fluid level drops below the minimum marking, check the brake system (repair measure) before replenishing the brake fluid.



2.71 Fuel filter: replace

⇒ Engine - Supply and ignition system; Rep. gr. 20 ; Supply system - reservoir, fuel pump

2.72 Headlights: regulate the beam

⇒ Electrical equipment; Rep. gr. 94 ; Switches, lights and external lamps

Special tools and workshop equipment required

♦ Headlight aligner - VAS 5046- or -VAS 5047-

In principle, the following checking and adjustment description is valid for all countries. However, the guidelines and standards of the respective country must be taken into account.

Prerequisites for checking and adjustment:

- Tire inflation pressure OK.
- The headlight lenses must never be damaged or dirty.
- Reflectors and lamps OK.
- The vehicle's load condition must be known.

Load: With one person or 75 kg on the driver's seat of empty vehicles (empty weight):

The weight of an empty vehicle is the weight of the vehicle ready for operation and with a full fuel tank (at least 90%), including the weight of every component required for its use (e.g. spare wheel, tools, towing hook, fire extinguisher, etc.).

If the fuel reservoir is not at least 90% full, you must simulate the load as follows:

– Check the tank level on the fuel gauge. Establish the required additional weight according to the table below and stow this weight in the luggage compartment.

2.72.1 Filling quantities table

Fuel reservoir indicator filling level	Additional weight in kg
1/4	30
1/2	20
3/4	10
full	0

Example:

If the fuel reservoir is half full, you must put an additional weight of 20 kg in the boot.

Note

As additional weight, it is preferable to use fuel containers filled with water (one fuel container with a 5-litre capacity corresponds to a weight of approximately 5 kg).

The vehicle should be moved for a few meters and pushed down a couple of times both at the front and at the rear so the shock absorbers get properly settled.

♦ The vehicle and the headlight adjusting device must be on a level surface. ⇒ Instruction manual for the headlight adjusting device.

♦ The vehicle and the headlight adjusting device must be aligned.

♦ The Tilt must be adjusted.

The housing above the headlight has the tilt values engraved in "%". The headlights must be adjusted according to this data. The percentage is related to a projection distance of 10 meters. An inclination of 1%, for example, corresponds to 10 cm.

♦ The knurled nut for adjusting the headlight reach must be in the (-) position.

2.72.2 Adjust the headlights

Main headlights

⇒ Electrical equipment; Rep. gr. 94 ; Switches, lights and external lamps

Fog lights

⇒ Electrical equipment; Rep. gr. 94 ; Switches, lights and external lamps

Long range headlights (Crossfox and Space Cross)

⇒ Electrical equipment; Rep. gr. 94 ; Switches, lights and external lamps

2.73 Perform a test run

The following items depend on the vehicle equipment and local conditions (city/country).

During a test run, evaluate the following items:

– Engine: Power, ignition failures, idle speed behavior, acceleration.
– Clutch: Starting performance, pedal force, smell.
– Transmission: Mobility, position of the selector lever.
– ABS operation: During an ABS-controlled braking, a slight pulsing on the brake pedal should be noticed.
– Service brake and parking brake: Operation, idle stroke and action, one-side pulls, trepidations, noises.
– Steering wheel: Operation, steering wheel play, steering wheel in intermediate position with front wheels in straight position.
– Radio: Reception, interference noises.
– Air conditioning: Operation.
– Vehicle: Offsets on a straight run (level road).
– Balancing: Wheels, drive shafts.
– Wheel roller bearing: Noises.
– Engine: Hot start behavior.

3 Additional tasks due to country legislation

Note

The exhaust gas tests are valid only for countries that do not have specific guidelines for the exhaust gas test.

3.1 Glossary

These explanations refer only to the “Maintenance Cares”. They are not intended to be universal!

Concept	Explanation
AU	Exhaust gas test.
ABS	(anti-blocking system), the ABS is a brake system adjustment that prevents the wheels from blocking while braking. Thus, the stability and the steering control are maintained.
ATF	(Automatic Transmission Fluid) gear oil for automatic gearboxes.
ATF level	"Level" of the gear oil for automatic gearboxes.
Cetane rate	(level of cetane) dimension of diesel's flammability.
DIN	Deutsches Institut für Normung e.V (German Institute for Standardisation).
EN	Europe Norm

Concept	Explanation
EOBD	European On-Board Diagnosis
FAME	Fatty Acid Methyl Ester
FSI	Fuel Stratified Injection
TFSI	Turbo Fuel Stratified Injection
MIL	(Malfunction Indicator Light) American designation for exhaust gas light K83
NO_X	Nitric oxide
OBD	On-Board Diagnosis; the OBD checks all components that influence the quality of the exhaust gases
OBD-II	American On-Board Diagnosis
PD	Unit of pump - nozzle injection in diesel engines
PR number	Abbreviation for production control number. They identify, among others, additional equipment, specific differences of each country and data about the movement steering
PM	(English: particulate matter) particulate material in diesel engine exhaust gases
QG0	Vehicles “not”equipped in the factory with components for the LongLife service. For maintenance, the intervals that depend on time or kilometres travelled are applied (fixed intervals).

Concept	Explanation
QG1	Vehicles equipped in the factory with the active LongLife service. It means that the vehicles have a flexible service interval indicator and are equipped with the following components: ♦ Flexible service interval indicator in the combined instrument ♦ Engine oil's level sensor ♦ Brake pad's wearing indicator
QG2	The LongLife service is not active from the factory. It means that the vehicles have a fixed service interval indicator (maintenance intervals dependent on time or kilometres travelled) and are equipped with the following components: ♦ Fixed service interval indicator in the combined instrument ♦ Engine oil's level sensor ♦ Brake pad's wearing indicator
Readiness code	Binary 8-digit code that indicates if all relevant engine diagnoses were made in terms of exhaust gases
Octane rating	(level of octane researched) dimension of petrol resistance to detonation
SAE	(Society of Automotive Engineers) Association that provides recommendations/guidelines about transposing legal requirements (for example, rules)
SD	Aspirated diesel engine
SDI	Aspirated diesel engine with direct injection
SIA	Service interval indicator
SW	Acronym for the key size
TD	Turbo Diesel Engine
TDI	Turbo diesel engine with direct injection
VEP	Distributor injection pump
ULEV	Ultra Low Emission Vehicles

Concept	Explanation
WIV	Extension of maintenance interval
Common - Rail	Term that designates a general injection control by high pressure, which injects fuel in all seat cylinders
DPF	Diesel particle filter; this filter is assembled after the catalytic converter and filters particles from the exhaust gases
V engines	The V engine has cylinders arranged in an angle from 60° to 120°
LongLife service	The LongLife service enables extremely long inspection and oil change intervals, depending on the driving mode and the conditions of use for each one. A special engine oil is necessary for the LongLife service
Enrichment probe	Also named (LSH- heated lambda probe), (LSF- flat lambda probe) or oxygen sensor. The emission of the lambda value is made through a tension curve with discontinuous growth. The lambda value is determined based on a change of tension. The probe is used as a post-catalytic converter probe.
Broad range probe	Also named (LSU probe) universal lambda probe. The emission of the lambda value is made through a tension curve with an apparently linear current intensity growth. The lambda value is determined based on a change of current intensity. Thus, the lambda value can be measured on a large measurement field (broad range). The probe is used as a pre-catalytic converter probe.
Balance of ash mass	The balance of ash mass informs about the level of the particle filter volume filling.
RDK, RKA	Control of tire pressure, indicator of tire control.

04.11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